APPENDIX A

```
HEADER
         TRANSFERASE
                                                 02-OCT-01
                                                             1K3A
          STRUCTURE OF THE INSULIN-LIKE GROWTH FACTOR 1 RECEPTOR
TITLE
TITLE
       2 KINASE
COMPND
        MOL_ID: 1;
COMPND 2 MOLECULE: INSULIN-LIKE GROWTH FACTOR 1 RECEPTOR;
       3 CHAIN: A;
COMPND
       4 FRAGMENT: BETA CHAIN, KINASE DOMAIN (RESIDUES 988-1286);
COMPND
COMPND
       5 EC: 2.7.1.112;
       6 ENGINEERED: YES;
COMPND
        7 MOL_ID: 2;
COMPND
        8 MOLECULE: INSULIN RECEPTOR SUBSTRATE 1;
COMPND
        9 CHAIN: B;
COMPND
COMPND 10 SYNONYM: IRS-1;
COMPND 11 ENGINEERED: YES
         MOL_ID: 1;
SOURCE
         2 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE
       3 ORGANISM_COMMON: HUMAN;
SOURCE
       4 EXPRESSION_SYSTEM: SPODOPTERA FRUGIPERDA;
SOURCE
       5 EXPRESSION_SYSTEM_COMMON: FALL ARMYWORM;
SOURCE
SOURCE 6 EXPRESSION SYSTEM STRAIN: SF9;
SOURCE 7 EXPRESSION_SYSTEM_VECTOR_TYPE: BACULOVIRUS;
SOURCE 8 EXPRESSION_SYSTEM_PLASMID: PFAST-BAC;
SOURCE
       9 MOL_ID: 2;
SOURCE 10 SYNTHETIC: YES;
SOURCE 11 OTHER_DETAILS: CHEMICALLY SYNTHESIZED
KEYWDS
        PROTEIN KINASE, TYROSINE KINASE, TYROSINE PHOSPHORYLATION,
KEYWDS
       2 PROTEIN-SUBSTRATE COMPLEX
EXPDTA X-RAY DIFFRACTION
AUTHOR
         S.FAVELYUKIS, J.H.TILL, S.R.HUBBARD, W.T.MILLER
REVDAT
        1 28-NOV-01 1K3A
                              0
JRNL
            AUTH
                  S.FAVELYUKIS, J.H.TILL, S.R.HUBBARD, W.T.MILLER
                  STRUCTURE AND AUTOREGULATION OF THE INSULIN-LIKE
JRNL
            TITL
JRNL
            TITL 2 GROWTH FACTOR 1 RECEPTOR KINASE
JRNL
           REF
                  TO BE PUBLISHED
JRNL
           REFN
REMARK
        1
REMARK
        2 RESOLUTION. 2.10 ANGSTROMS.
REMARK
REMARK
REMARK
        3 REFINEMENT.
REMARK
        3 PROGRAM
                        : CNS 1.0
REMARK
            AUTHORS
                        : BRUNGER, ADAMS, CLORE, DELANO, GROS, GROSSE-
                        : KUNSTLEVE, JIANG, KUSZEWSKI, NILGES, PANNU,
REMARK
REMARK
                        : READ, RICE, SIMONSON, WARREN
REMARK
       3 REFINEMENT TARGET : ENGH & HUBER
REMARK
REMARK
REMARK
        3 DATA USED IN REFINEMENT.
        3 RESOLUTION RANGE HIGH (ANGSTROMS) : 2.10
REMARK
REMARK
            RESOLUTION RANGE LOW (ANGSTROMS): 28.07
REMARK
            DATA CUTOFF
                                   (SIGMA(F)) : 0.000
            OUTLIER CUTOFF HIGH (RMS(ABS(F))) : NULL
REMARK
REMARK
            COMPLETENESS (WORKING+TEST)
                                        (%) : 99.9
           NUMBER OF REFLECTIONS
REMARK
                                              : 24265
REMARK
        3
        3 FIT TO DATA USED IN REFINEMENT.
REMARK
REMARK
        3 CROSS-VALIDATION METHOD
                                             : THROUGHOUT
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
```

```
REMARK 3 R VALUE (WORKING SET) : 0.212
REMARK 3 FREE R VALUE : 0.251
REMARK 3 FREE R VALUE TEST SET SIZE (%): 9.800
REMARK 3 FREE R VALUE TEST SET COUNT : 2381
REMARK 3
           ESTIMATED ERROR OF FREE R VALUE : 0.005
REMARK
REMARK
        3 FIT IN THE HIGHEST RESOLUTION BIN.
3 TOTAL NUMBER OF BINS USED
        3 TOTAL NUMBER OF BINS USED
3 BIN RESOLUTION STATES
REMARK
REMARK
REMARK
            BIN RESOLUTION RANGE LOW

BIN COMPLEMENTED

(A): 2.10

(A): 2.23
REMARK
        3 BIN COMPLETENESS (WORKING+TEST) (%): 96.10
REMARK 3 REFLECTIONS IN BIN (WORKING SET): 3533
REMARK 3 BIN R VALUE (WORKING SET): 0.2310
REMARK 3 BIN FREE R VALUE : 0.2750
REMARK 3 BIN FREE R VALUE TEST SET SIZE (%): 9.90
REMARK 3 BIN FREE R VALUE TEST SET COUNT : 390
REMARK 3 ESTIMATED ERROR OF BIN FREE R VALUE : 0.014
REMARK 3
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 PROTEIN ATOMS : 2359
REMARK 3 NUCLEIC ACID ATOMS
                                    : 0
REMARK 3 HETEROGEN ATOMS
                                    : 31
REMARK 3 SOLVENT ATOMS
                                    : 158
REMARK 3
REMARK 3 B VALUES.
        3 FROM WILSON PLOT (A**2) : 22.30
3 MEAN B VALUE (OVERALL, A**2) : 33.90
REMARK
REMARK
REMARK
           OVERALL ANISOTROPIC B VALUE.
        3 B11 (A**2) : 2.00000
3 B22 (A**2)
REMARK
REMARK
REMARK
        3 B22 (A**2) : 3.88000
3 B33 (A**2) : ~5.88000
REMARK 3 B12 (A**2): 0.00000
REMARK 3 B13 (A**2): 0.00000
REMARK 3 B23 (A**2): 0.00000
REMARK 3
REMARK 3 ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM LUZZATI PLOT
                                        (A) : 0.25
REMARK 3 ESD FROM SIGMAA
                                         (A) : 0.15
REMARK 3 LOW RESOLUTION CUTOFF
                                         (A) : 5.00
REMARK 3
REMARK 3 CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM C-V LUZZATI PLOT (A): 0.31
REMARK 3 ESD FROM C-V SIGMAA
                                         (A) : 0.21
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES.
REMARK
REMARK
REMARK
REMARK
        3 BOND LENGTHS (A): 0.006
            BOND ANGLES
                                   (DEGREES) : 1.30
                                   (DEGREES) : 22.00
            DIHEDRAL ANGLES
        3 IMPROPER ANGLES
                                   (DEGREES) : 0.71
REMARK 3
REMARK 3 ISOTROPIC THERMAL MODEL : RESTRAINED
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS.
                                                  RMS
REMARK 3 MAIN-CHAIN BOND (A**2): 0.990; 1.500
                                         (A**2) : 1.680 ; 2.000
REMARK 3 MAIN-CHAIN ANGLE
REMARK 3 SIDE-CHAIN BOND
                                        (A**2) : 5.110 ; 2.000
                                        (A**2) : 6.690 ; 2.500
REMARK 3 SIDE-CHAIN ANGLE
REMARK 3
REMARK 3 BULK SOLVENT MODELING.
REMARK 3 METHOD USED : FLAT MODEL
```

```
REMARK 3 KSOL : 0.36
REMARK 3 BSOL : 46.82
                           : 46.82
REMARK
          3
REMARK
          3 NCS MODEL : NULL
REMARK 3
REMARK 3 NCS RESTRAINTS. RMS SIGMA,
REMARK 3 GROUP 1 POSITIONAL (A): NULL; NULL
DEMARK 3 GROUP 1 B-FACTOR (A**2): NULL; NULL
                                                         RMS SIGMA/WEIGHT
REMARK 3
REMARK 3 PARAMETER FILE 1 : PROTEIN_REP.PARAM REMARK 3 PARAMETER FILE 2 : DNA-RNA.PARAM REMARK 3 PARAMETER FILE 3 : WATER_REP.PARAM
REMARK 3 PARAMETER FILE 4 : ION. PARAM
REMARK 3 PARAMETER FILE 5 : PARAMCSDX.MISC
REMARK 3 PARAMETER FILE 6 : NULL
REMARK 3 TOPOLOGY FILE 1 : &_1_TOPOLOGY_INFILE_1
REMARK 3 TOPOLOGY FILE 2 : &_1_TOPOLOGY_INFILE_2
REMARK 3 TOPOLOGY FILE 3 : &_1_TOPOLOGY_INFILE_3
REMARK 3 TOPOLOGY FILE 4 : &_1_TOPOLOGY_INFILE_4
REMARK 3 TOPOLOGY FILE 5 : &_1_TOPOLOGY_INFILE_5
REMARK 3 TOPOLOGY FILE 6 : NULL
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS: NULL
REMARK 4
REMARK 4 1K3A COMPLIES WITH FORMAT V. 2.3, 09-JULY-1998
REMARK 100
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY RCSB ON 12-OCT-2001.
REMARK 100 THE RCSB ID CODE IS RCSB014506.
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 EXPERIMENT TYPE : X-RAY DIFFRACTION REMARK 200 DATE OF DATA COLLECTION : 22-MAY-2001
REMARK 200 TEMPERATURE (KELVIN): 100.0
                                              : 7.50
REMARK 200 PH
REMARK 200 NUMBER OF CRYSTALS USED
REMARK 200
REMARK 200 SYNCHROTRON
                                         (Y/N) : Y
REMARK 200 SYNCHROTRON
REMARK 200 RADIATION SOURCE
                                           : NSLS
REMARK 200 BEAMLINE
                                               : X4A
REMARK 200 X-RAY GENERATOR MODEL
                                               : NULL
REMARK 200 MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200 WAVELENGTH OR RANGE (A): 0.97250
REMARK 200 MONOCHROMATOR
                                             : SILICON CRYSTAL
REMARK 200 OPTICS
                                                : NULL
REMARK 200
REMARK 200 DETECTOR TYPE
                                               : CCD
REMARK 200 DETECTOR TYPE : CCD
REMARK 200 DETECTOR MANUFACTURER : ADSC QUANTUM 4
REMARK 200 INTENSITY-INTEGRATION SOFTWARE : DENZO
REMARK 200 DATA SCALING SOFTWARE
                                                : SCALEPACK
REMARK 200
REMARK 200 NUMBER OF UNIQUE REFLECTIONS
                                              : 24941
REMARK 200 RESOLUTION RANGE HIGH (A): 2.100 REMARK 200 RESOLUTION RANGE LOW (A): 28.070
REMARK 200 REJECTION CRITERIA (SIGMA(I)): 0.000
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE (%): 99.9
REMARK 200 DATA REDUNDANCY
                                             : NULL
REMARK 200 R MERGE
                                           (I) : NULL
REMARK 200 R SYM
                               (I): 0.04800
```

```
REMARK 200 <1/SIGMA(I) > FOR THE DATA SET : NULL
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : 2.10
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A): 2.18
REMARK 200 COMPLETENESS FOR SHELL (%): 100.0
                                       : NULL
REMARK 200 DATA REDUNDANCY IN SHELL
REMARK 200 R MERGE FOR SHELL
                                      (I) : NULL
REMARK 200 R SYM FOR SHELL
                                      (I) : 0.25400
REMARK 200 <1/SIGMA(I)> FOR SHELL
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH
REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: MOLECULAR REPLACEMENT
REMARK 200 SOFTWARE USED: AMORE
REMARK 200 STARTING MODEL: 11R3
REMARK 200
REMARK 200 REMARK: NULL
REMARK 280
REMARK 280 CRYSTAL
REMARK 280 SOLVENT CONTENT, VS
                                (%): NULL
REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): NULL
REMARK 280
REMARK 280 CRYSTALLIZATION CONDITIONS: PEG 8000, SODIUM CHLORIDE, HEPES
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: C 2 2 21
REMARK 290
REMARK 290
              SYMOP
                       SYMMETRY
REMARK 290
             NNNMMM OPERATOR
REMARK 290
              1555 X,Y,Z
REMARK 290
               2555 - X, -Y, 1/2 + Z
REMARK 290
               3555 - X, Y, 1/2 - Z
REMARK 290
              4555 X,-Y,-Z
              5555
5555
                      1/2+X,1/2+Y,Z
REMARK 290
REMARK 290
              6555
7555
                       1/2-X,1/2-Y,1/2+Z
REMARK 290
                       1/2-X, 1/2+Y, 1/2-Z
              8555 1/2+X,1/2-Y,-Z
REMARK 290
REMARK 290
REMARK 290
             WHERE NNN -> OPERATOR NUMBER
REMARK 290
                    MMM -> TRANSLATION VECTOR
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY
REMARK 290 RELATED MOLECULES.
           SMTRY1 1 1.000000 0.000000 0.000000
REMARK 290
           SMTRY2 1 0.000000 1.000000 0.000000
REMARK 290
                                                           0.00000
REMARK 290 SMTRY3 1 0.000000 0.000000 1.000000
                                                          0.00000
REMARK 290 SMTRY1 2 -1.000000 0.000000 0.000000
                                                          0.00000
                                                           0.00000
REMARK 290 SMTRY2 2 0.000000 -1.000000 0.000000
           SMTRY3
                    2 0.000000 0.000000 1.000000
3 -1.000000 0.000000 0.000000
REMARK 290
                                                         46.64850
           SMTRY1
SMTRY2
                                                           0.00000
REMARK 290
                     3 0.000000 1.000000 0.000000
                                                          0.00000
REMARK 290
           SMTRY3 3 0.000000 0.000000 -1.000000
REMARK 290
                                                         46.64850
REMARK 290
           SMTRY1 4 1.000000 0.000000 0.000000
                                                          0.00000
REMARK 290 SMTRY2 4 0.000000 -1.000000 0.000000
REMARK 290 SMTRY3 4 0.000000 0.000000 -1.000000
                                                          0.00000
           SMTRY1 5 1.000000 0.000000 0.000000
REMARK 290
                                                         40.31200
           SMTRY2 5 0.000000 1.000000 0.000000
SMTRY3 5 0.000000 0.000000 1.000000
                                                         55.50900
REMARK 290
REMARK 290
                                                          0.00000
```

.

```
6 -1.000000 0.000000 0.000000
                                                            40.31200
REMARK 290
            SMTRY1
                      6 0.000000 -1.000000 0.000000
                                                             55.50900
REMARK 290
            SMTRY2
REMARK 290
            SMTRY3
                      6 0.000000 0.000000 1.000000
                                                            46.64850
            SMTRY1 7 -1.000000 0.000000 0.000000
REMARK 290
                                                            40.31200
REMARK 290
            SMTRY2 7 0.000000 1.000000 0.000000
                                                            55.50900
                                                            46.64850
            SMTRY3 7 0.000000 0.000000 -1.000000
REMARK 290
           SMTRY1 8 1.000000 0.000000 0.000000
SMTRY2 8 0.000000 -1.000000 0.000000
SMTRY3 8 0.000000 0.000000 -1.000000
                                                            40.31200
REMARK 290
                                                            55.50900
REMARK 290
REMARK 290
                                                             0.00000
REMARK 290
REMARK 290 REMARK: NULL
REMARK 300
REMARK 300 BIOMOLECULE: 1
REMARK 300 THIS ENTRY CONTAINS THE CRYSTALLOGRAPHIC ASYMMETRIC UNIT
REMARK 300 WHICH CONSISTS OF 2 CHAIN(S). SEE REMARK 350 FOR
REMARK 300 INFORMATION ON GENERATING THE BIOLOGICAL MOLECULE(S).
REMARK 350
REMARK 350 GENERATING THE BIOMOLECULE
REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN
REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE
REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS
REMARK 350 GIVEN BELOW. BOTH NON-CRYSTALLOGRAPHIC AND
REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.
REMARK 350
REMARK 350 BIOMOLECULE: 1
REMARK 350 APPLY THE FOLLOWING TO CHAINS: A, B

    1
    1.000000
    0.000000
    0.000000

    1
    0.000000
    1.000000
    0.000000

REMARK 350
             BIOMT1
                                                               0.00000
REMARK 350
             BIOMT2
                                              0.000000
                                                               0.00000
REMARK 350
                      1 0.000000 0.000000 1.000000
                                                               0.00000
             BIOMT3
REMARK 465
REMARK 465 MISSING RESIDUES
REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE
REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 465 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)
REMARK 465
REMARK 465
            M RES C SSSEQI
             GLU A 1069
REMARK 465
REMARK 465
               ASN A 1070
REMARK 465
              ASN A 1071
REMARK 465
              PRO A 1072
REMARK 465
              VAL A 1073
REMARK 465
            LEU A 1074
            ALA A 1075
PRO A 1076
REMARK 465
REMARK 465
             LYS B
REMARK 465
                         1
REMARK 465
             LYS B
REMARK 465
              LYS B
REMARK 465
               SER B
                        5
               PRO B
REMARK 465
REMARK 465
               GLY B
                        14
REMARK 470
REMARK 470 MISSING ATOM
REMARK 470 THE FOLLOWING RESIDUES HAVE MISSING ATOMS (M=MODEL NUMBER;
REMARK 470 RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE NUMBER;
REMARK 470 I=INSERTION CODE):
REMARK 470
           M RES CSSEQI ATOMS
                            CG
REMARK 470
             LYS A 993
                                  CD
                                         CE
                                               NZ
REMARK 470
               ASN A1006
                            CG
                                   OD1
                                         ND2
REMARK 470
              GLU A1007
                            CG
                                   CD
                                         OE1
                                               OE2
REMARK 470
               ARG A1012
                            CG
                                   CD
                                         NE
                                               CZ
                                                     NH1
                                                           NH2
```

```
OE1
REMARK 470
              GLU A1067
                            CB
                                  CG
                                        CD
                                                    OE<sub>2</sub>
              MET A1068
                            CB
                                  CG
                                        SD
                                              CE
REMARK 470
REMARK 470
              LEU A1079
                            CG
                                  CD1
                                        CD2
                                              NZ
REMARK 470
              LYS A1081
                            CG
                                  CD
                                        CE
REMARK 470
              GLU A1132
                            CG
                                  CD
                                        OE1
                                              OE2
REMARK 470
              LYS A1224
                            CG
                                  CD
                                        CE
                                              NZ
REMARK 470
              GLU A1238
                            CG
                                  CD
                                        OE1
                                              OE2
                                  CD
REMARK 470
              LYS A1256
                            CG
                                        CE
                                              NZ
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND LENGTHS
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X, I3, 1X, 2(A3, 1X, A1, I4, A1, 1X, A4, 3X), F6.3)
REMARK 500
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500 M RES CSSEQI ATM1
                                RES CSSEQI ATM2
                                                  DEVIATION
                                MET A1126
                                                   0.049
REMARK 500
            MET A1126
                          CE
                                           SD
                                            CG
                                                   0.034
REMARK 500
             MET A1217
                          SD
                                MET A1217
REMARK 500
             GLY B 6
                          CA
                                GLY B 6
                                           N
                                                   0.039
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND ANGLES
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X, I3, 1X, A3, 1X, A1, I4, A1, 3(1X, A4, 2X), 12X, F5.1)
REMARK 500
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500 M RES CSSEQI ATM1
                                ATM2
                                       ATM3
                            - CA - C
                                            ANGL. DEV. = -8.8 DEGREES
REMARK 500
             GLU A 985 N
                                            ANGL. DEV. =-10.3 DEGREES
REMARK 500
             ALA A1001
                         N
                              - CA - C
                                            ANGL. DEV. = 8.7 DEGREES
REMARK 500
             ARG A1034
                             - CA - C
                         N
                                            ANGL. DEV. = -8.5 DEGREES
REMARK 500
              VAL A1047
                         N
                             - CA - C
REMARK 500
                            - CA - C
                                            ANGL. DEV. = -8.3 DEGREES
             VAL A1102
                         N
                        N - CA - C
REMARK 500
             GLY A1122
                                          ANGL. DEV. = 12.4 DEGREES
REMARK 500
                             - CA - C
                                            ANGL. DEV. = 8.1 DEGREES
             THR A1133
                        N
REMARK 500
             GLU A1180
                        N
                             - CA - C
                                            ANGL. DEV. = -9.5 DEGREES
REMARK 999
REMARK 999 SEQUENCE
REMARK 999 THE RESIDUE CORRESPONDS TO RESIDUE FROM
REMARK 999 A SYNTHETIC PEPTIDE. IT WAS ADDED TO
REMARK 999 MODIFY THE SEQUENCE TO BE SUITABLE FOR
REMARK 999 ACTIVITY ASSAYS
DBREF 1K3A A 958 1256 SWS
                                 P08069
                                          IG1R_HUMAN
                                                         988
                                                               1286
DBREF 1K3A B
                3
                      14 SWS
                                 P35568
                                          IRS1_HUMAN
                                                         891
                                                                902
                                     TYR 1161 MODIFIED RESIDUE
SEQADV 1K3A PTR A 1131 SWS P08069
                                       TYR 1165 MODIFIED RESIDUE TYR 1166 MODIFIED RESIDUE
SEQADV 1K3A PTR A 1135 SWS P08069
SEQADV 1K3A PTR A 1136 SWS P08069
```

```
SEQADV 1K3A LEU A 1212 SWS P08069
                                      PHE 1242 VARIANT
SEQADV 1K3A LYS B
                     1
                        SWS
                            P08069
                                                 SEE REMARK 999
                                                 SEE REMARK 999
SEQADV 1K3A LYS B
                     2
                        SWS P08069
         1 A 299
                  VAL PRO ASP GLU TRP GLU VAL ALA ARG GLU LYS ILE THR
SEQRES
             299 MET SER ARG GLU LEU GLY GLN GLY SER PHE GLY MET VAL
SEORES
         2 A
SEORES
         3 A
             299
                  TYR GLU GLY VAL ALA LYS GLY VAL VAL LYS ASP GLU PRO
         4 A 299 GLU THR ARG VAL ALA ILE LYS THR VAL ASN GLU ALA ALA
SEQRES
         5 A 299 SER MET ARG GLU ARG ILE GLU PHE LEU ASN GLU ALA SER
SEQRES
         6 A 299
                  VAL MET LYS GLU PHE ASN CYS HIS HIS VAL VAL ARG LEU
SEQRES
         7 A
SEQRES
              299
                  LEU GLY VAL VAL SER GLN GLY GLN PRO THR LEU VAL ILE
         A 8
              299
                  MET GLU LEU MET THR ARG GLY ASP LEU LYS SER TYR LEU
SEORES
         9 A
SEORES
              299
                  ARG SER LEU ARG PRO GLU MET GLU ASN ASN PRO VAL LEU
       10 A 299 ALA PRO PRO SER LEU SER LYS MET ILE GLN MET ALA GLY
SEQRES
SEQRES
       11 A 299 GLU ILE ALA ASP GLY MET ALA TYR LEU ASN ALA ASN LYS
SEORES
       12 A 299 PHE VAL HIS ARG ASP LEU ALA ALA ARG ASN CYS MET VAL
       13 A 299 ALA GLU ASP PHE THR VAL LYS ILE GLY ASP PHE GLY MET
SEQRES
       14 A 299 THR ARG ASP ILE PTR GLU THR ASP PTR PTR ARG LYS GLY
SEQRES
SEQRES
       15 A 299
                  GLY LYS GLY LEU LEU PRO VAL ARG TRP MET SER PRO GLU
       16 A
17 A
              299
                  SER LEU LYS ASP GLY VAL PHE THR THR TYR SER ASP VAL
SEORES
SEORES
              299
                  TRP SER PHE GLY VAL VAL LEU TRP GLU ILE ALA THR LEU
       18 A
                  ALA GLU GLN PRO TYR GLN GLY LEU SER ASN GLU GLN VAL
SEQRES
              299
       19 A 299
                  LEU ARG PHE VAL MET GLU GLY GLY LEU LEU ASP LYS PRO
SEORES
SEORES
       20 A 299
                  ASP ASN CYS PRO ASP MET LEU LEU GLU LEU MET ARG MET
SEQRES
       21 A 299
                  CYS TRP GLN TYR ASN PRO LYS MET ARG PRO SER PHE LEU
SEQRES
       22 A 299
                  GLU ILE ILE SER SER ILE LYS GLU GLU MET GLU PRO GLY
       23 A 299
SEORES
                  PHE ARG GLU VAL SER PHE TYR TYR SER GLU GLU ASN LYS
                  LYS LYS LYS SER PRO GLY GLU TYR VAL ASN ILE GLU PHE
SEORES
        1 B
              14
SEQRES
         2 B
              14
                  GLY
MODRES 1K3A PTR A 1131
                       TYR O-PHOSPHOTYROSINE
MODRES 1K3A PTR A 1135
                       TYR O-PHOSPHOTYROSINE
MODRES 1K3A PTR A 1136 TYR O-PHOSPHOTYROSINE
HET
       PTR A1131
                       16
HET
       PTR A1135
                       16
HET
       PTR A1136
                       16
HET
       ACP
              300
                       31
HETNAM
           PTR O-PHOSPHOTYROSINE
           ACP PHOSPHOMETHYLPHOSPHONIC ACID ADENYLATE ESTER
HETNAM
           PTR PHOSPHONOTYROSINE
HETSYN
           ACP ADENOSINE-5'-[BETA, GAMMA-METHYLENE] TRIPHOSPHATE
HETSYN
FORMUL
         1 PTR
                   3 (C9 H12 N1 O6 P1)
FORMUL
         3 ACP
                   C11 H18 N5 O12 P3
                  *158(H2 O1)
FORMUL
         4 HOH
HELIX
         1
            1 ALA A 965 GLU A 967
         2
             2 SER A 1010 LYS A 1025
HELIX
16
         3
            3 ASP A 1056
                          SER A 1063
HELIX
8
             4 SER A 1078 ASN A 1099
HELIX
         4
                                       1
22
HELIX
         5
             5 ALA A 1107 ARG A 1109
3
             6 PRO A 1145
                          MET A 1149
HELIX
         6
5
HELIX
         7
             7 SER A 1150
                          GLY A 1157
8
HELIX
         8
             8 THR A 1160
                          THR A 1177
18
HELIX
         9
             9 SER A 1187 GLU A 1197 1
11
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10 10 PRO A 1208 TRP A 1219 1
HELIX
12
HELIX
           11 ASN A 1222
                          ARG A 1226
        11
5
            12 SER A 1228 LYS A 1237
HELIX
        12
10
HELIX
        13
           13 GLU A 1238
                          MET A 1240
3
           14 GLU A 1241
                          PRO A 1242
HELIX
        14
2
           15 GLY A 1243
                           SER A 1248
HELIX
        15
6
SHEET
             A 5 ILE A 969
                            GLN A 977
                                       0
                                                            ARG A 973
SHEET
         2
             A 5 MET A 982
                            VAL A 992 -1
                                          O GLU A 985
                                                          N
             A 5 GLU A 995
                            VAL A1005 -1
                                             ILE A1002
                                                             TYR A 984
         3
                                          0
                                                          N
SHEET
         4
             A 5 THR A1045
                            GLU A1050 -1
                                          0
                                             MET A1049
                                                          N
                                                             ALA A1001
SHEET
                                             VAL A1039
                                                             LEU A1046
SHEET
         5
             A 5 LEU A1035
                            VAL A1039 -1
                                          N
                                                          0
             B 2 PHE A1101
                            VAL A1102
                                      0
SHEET
         1
SHEET
         2
             B 2 ARG A1128
                            ASP A1129 -1
                                          0
                                             ARG A1128
                                                          N
                                                             VAL A1102
SHEET
         1
             C 2 CYS A1111
                            VAL A1113 0
                            ILE A1121 -1
                                          O LYS A1120
                                                             MET A1112
         2
             C 2 VAL A1119
                                                          N
SHEET
SHEET
             D 2 PTR A1136
                            ARG A1137 0
         1
SHEET
         2
             D 2 VAL A1158
                            PHE A1159 -1
                                          0
                                             PHE A1159
                                                          N
                                                             PTR A1136
             E 2 GLY A1140
                            LEU A1144 0
SHEET
                        9 PHE B 13 -1
                                                      9
                                                        N LEU A1144
SHEET
         2
             E 2 VAL B
                                          0
                                            VAL B
                                                      -0.31
         1 GLN A 1043
                         PRO A 1044
                                             0
CISPEP
                                          90.00 90.00 C 2 2 21
         80.624 111.018
                           93.297 90.00
                                                                      8
CRYST1
            1.000000 0.000000 0.000000
                                                 0.00000
ORIGX1
                      1.000000
                                0.000000
                                                 0.00000
ORIGX2
            0.000000
ORIGX3
            0.000000
                      0.000000
                                1.000000
                                                0.00000
                      0.000000
                                0.000000
                                                0.00000
SCALE1
            0.012403
SCALE2
            0.000000 0.009008
                                0.000000
                                                0.00000
SCALE3
            0.000000 0.000000 0.010718
                                                0.00000
                 VAL A 958
                                 1.657 20.877
                                                69.207 1.00 51.05
ATOM
          1 N
N
ATOM
          2 CA
                VAL A 958
                                 1.775 19.689
                                                68.313 1.00 50.75
С
          3 C
                                        19.326
                                                67.993 1.00 49.74
ATOM
                 VAL A 958
                                 3.224
С
ATOM
                 VAL A 958
                                 4.136
                                        20.142
                                                68.150
                                                        1.00 49.39
          4
             0
0
                 VAL A 958
                                 1.034
                                        19.916
                                                66.988
                                                         1.00 51.21
MOTA
          5
             CB
С
MOTA
          6
             CG1 VAL A 958
                                -0.466
                                        19.769
                                                67.197
                                                         1.00 51.45
C
MOTA
          7
             CG2 VAL A 958
                                 1.368
                                        21.292
                                                66.454
                                                         1.00 51.73
С
                 PRO A 959
                                 3.449
                                        18.084
                                                67.536
                                                        1.00 48.78
ATOM
          8
             N
N
                                        17.601
                                                67.194
                                                         1.00 47.74
ATOM
          9
             CA
                 PRO A 959
                                 4.788
С
ATOM
         10
             С
                 PRO A 959
                                 5.419
                                        18.231
                                                65.954
                                                         1.00 46.42
С
                                                65.031
                                                        1.00 46.17
                 PRO A 959
                                 4.728
                                        18.671
ATOM
         11
             0
0
                 PRO A 959
                                 4.572
                                        16.098
                                                67.028
                                                        1.00 47.99
MOTA
         12
             CB
С
                 PRO A 959
                                 3.190 16.027
                                                66.473 1.00 48.47
MOTA
         13
             CG
С
                                2.451 17.013 67.355 1.00 49.08
MOTA
         14 CD
                 PRO A 959
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C ATOM	15	N	ASP	Α	960	6.746	18.269	65.954	1.00	44.87
N ATOM	16	CA	ASP	Α	960	7.511	18.796	64.836	1.00	43.06
C ATOM	17	C	ASP	Α	960	7.304	17.778	63.718	1.00	41.33
C ATOM	18	0	ASP	Α	960	7.752	16.635	63.819	1.00	41.18
O ATOM	19	СВ	ASP	Α	960	8.986	18.876	65.223	1.00	44.41
C ATOM	20	CG	ASP	A	960	9.857	19.411	64.110	1.00	45.65
C ATOM	21	OD1	ASP	A	960	11.083	19.504	64.324	1.00	45.96
O ATOM	22	OD2	ASP	A	960	9.321	19.739	63.029	1.00	46.57
O ATOM	23	N	GLU	A	961	6.621	18.193	62.657	1.00	38.80
N ATOM	24	CA	GLU	Α	961	6.329	17.299	61.544	1.00	36.15
C ATOM C	25	С	GLU	A	961	7.550	16.803	60.784	1.00	34.19
ATOM O	26	0	GLU	Α	961	7.470	15.797	60.087	1.00	33.48
ATOM C	27	СВ	GLU	A	961	5.377	17.979	60.559	1.00	37.39
ATOM C	28	CG	GLU	A	961	5.955	19.231	59.949	1.00	37.84
ATOM C	29	CD	GLU	A	961	5.185	19.701	58.741	1.00	38.43
ATOM O	30	OE1	GLU	A	961	4.860	18.858	57.877	1.00	39.58
ATOM O	31	OE2	GLU	A	961	4.921	20.916	58.645	1.00	36.87
ATOM N	32	N	TRP	A	962	8.674	17.500	60.908	1.00	32.23
ATOM C	33	CA	TRP	Α	962	9.882	17.091	60.198	1.00	31.38
ATOM C	34	С	TRP	A	962	10.838	16.206	60.990	1.00	31.67
ATOM O	35	0	TRP	A	962	11.694	15.540	60.408	1.00	32.08
ATOM C	36	СВ	TRP	A	962	10.635	18.319	59.687	1.00	30.26
ATOM C	37	CG	TRP	Α	962	9.909	19.018	58.585	1.00	28.44
ATOM C	38	CD1	TRP	A	962	9.198	20.174	58.679	1.00	28.49
ATOM C	39	CD2	TRP	A	962	9.791	18.580	57.227	1.00	27.71
ATOM N	40	NE1	TRP	A	962	8.639	20.487	57.461	1.00	28.76
ATOM C	41	CE2	TRP	Α	962	8.989	19.525	56.552	1.00	28.16
ATOM C	42	CE3	TRP	A	962	10.289	17.478	56.514	1.00	27.97
ATOM C	43	CZ2	TRP	A	962	8.670	19.406	55.196	1.00	28.47
MOTA	44	CZ3	TRP	Α	962	9.974	17.358	55.165	1.00	28.60

C ATOM	45	СН2	TRP	Α	962	9.171	18.318	54.519	1.00	28.84
C ATOM	46	N	GLU	Α	963	10.692	16.196	62.310	1.00	31.75
N ATOM	47	CA	GLU	Α	963	11.551	15.397	63.180	1.00	32.28
C ATOM	48	С	GLU	A	963	11.201	13.914	63.100	1.00	32.12
C ATOM O	49	0	GLU	A	963	10.031	13.548	63.155	1.00	32.21
ATOM C	50	СВ	GLU	A	963	11.407	15.871	64.630	1.00	33.07
ATOM C	51	CG	GLU	A	963	12.423	15.282	65.602	1.00	34.64
ATOM C	52	CD	GLU	Α	963	13.843	15.759	65.322	1.00	35.13
ATOM O	53	OE1	GLU	Α	963	14.015	16.957	65.035	1.00	34.62
ATOM O	54	OE2	GLU	A	963	14.786	14.944	65.401	1.00	36.29
ATOM N	55	N	VAL	A	964	12.212	13.062	62.967	1.00	31.49
ATOM C	56	CA	VAL	A	964	11.972	11.625	62.908	1.00	31.57
ATOM C	57	С	VAL	Α	964	12.844	10.916	63.947	1.00	31.83
ATOM O	58	0	VAL	A	964	14.001	11.286	64.162	1.00	30.49
ATOM C	59	СВ	VAL	A	964	12.272	11.029	61.493	1.00	31.63
ATOM C	60	CG1	VAL	A	964	11.712	11.932	60.407	1.00	31.96
ATOM C	61	CG2	VAL	A	964	13.751	10.823	61.305	1.00	32.42
ATOM N	62	N	ALA	A	965	12.281	9.900	64.596	1.00	32.42
ATOM C	63	CA	ALA	A	965	13.013	9.142	65.603	1.00	33.36
ATOM C	64	С	ALA	A	965	14.172	8.419	64.924	1.00	33.60
ATOM O	65	0	ALA	Α	965	13.985	7.746	63.913	1.00	34.41
ATOM C	66	CB	ALA	A	965	12.083	8.136	66.285	1.00	34.27
ATOM N	67	N	ARG	A	966	15.370	8.564	65.481	1.00	33.82
ATOM C	68	CA	ARG	A	966	16.561	7.935	64.922	1.00	34.27
ATOM C	69	С	ARG	Α	966	16.383	6.440	64.638	1.00	35.21
ATOM O	70	0	ARG	Α	966	16.951	5.906	63.683	1.00	34.68
ATOM C	71	CB	ARG	Α	966	17.744	8.137	65.872	1.00	33.86
ATOM C	72	CG	ARG	Α	966	19.074	7.617	65.340	1.00	34.14
ATOM C	73	CD	ARG	Α	966	20.191	7.910	66.319	1.00	34.37
ATOM	74	NE	ARG	Α	966	20.358	9.346	66.548	1.00	33.10

75 CZ ARG A 966 20.989 10.167 65.718 1.00 33.1 70M 76 NH1 ARG A 966 21.522 9.698 64.599 1.00 33.2 70M 77 NH2 ARG A 966 21.086 11.460 66.004 1.00 31.8 70M 78 N GLU A 967 15.590 5.769 65.465 1.00 36.4 70M 79 CA GLU A 967 15.367 4.335 65.311 1.00 38.0
TOM 77 NH2 ARG A 966 21.086 11.460 66.004 1.00 31.8 TOM 78 N GLU A 967 15.590 5.769 65.465 1.00 36.4
TOM 78 N GLU A 967 15.590 5.769 65.465 1.00 36.4
COM 79 CA GLU A 967 15.367 4.335 65.311 1.00 38.0
OM 80 C GLU A 967 14.702 3.945 63.999 1.00 37.7
TOM 81 O GLU A 967 14.895 2.831 63.518 1.00 37.6
OM 82 CB GLU A 967 14.534 3.799 66.481 1.00 39.7
OM 83 CG GLU A 967 15.186 4.009 67.837 1.00 43.2
OM 84 CD GLU A 967 15.189 5.468 68.267 1.00 45.3
OM 85 OE1 GLU A 967 15.988 5.828 69.163 1.00 47.0
TOM 86 OE2 GLU A 967 14.384 6.251 67.719 1.00 45.6
OM 87 N LYS A 968 13.925 4.854 63.420 1.00 37.6
OM 88 CA LYS A 968 13.234 4.563 62.164 1.00 38.3
OM 89 C LYS A 968 14.100 4.682 60.914 1.00 37.6
OM 90 O LYS A 968 13.614 4.479 59.801 1.00 37.2
OM 91 CB LYS A 968 12.011 5.468 62.020 1.00 38.8
OM 92 CG LYS A 968 10.955 5.242 63.091 1.00 41.1
OM 93 CD LYS A 968 9.842 6.269 62.982 1.00 42.3
OM 94 CE LYS A 968 8.866 6.158 64.142 1.00 44.1
YOM 95 NZ LYS A 968 7.876 7.279 64.136 1.00 45.2
OM 96 N ILE A 969 15.377 5.007 61.094 1.00 37.9
OM 97 CA ILE A 969 16.301 5.156 59.971 1.00 37.6
OM 98 C ILE A 969 17.453 4.159 60.067 1.00 38.0
OM 99 O ILE A 969 18.046 3.996 61.129 1.00 38.3
OM 100 CB ILE A 969 16.897 6.597 59.918 1.00 38.1
YOM 101 CG1 ILE A 969 15.826 7.605 59.491 1.00 38.6
OM 102 CG2 ILE A 969 18.056 6.659 58.935 1.00 37.3
OM 103 CD1 ILE A 969 14.737 7.817 60.507 1.00 40.3
OM 104 N THR A 970 17.767 3.496 58.956 1.00 37.9

N ATOM	105	CA	THR	Α	970	18.865	2.530	58.921	1.00	38.62
C ATOM C	106	С	THR	A	970	19.811	2.866	57.773	1.00	38.86
ATOM O	107	0	THR	A	970	19.368	3.223	56.683	1.00	37.49
ATOM C	108	CB	THR	Α	970	18.349	1.086	58.727	1.00	39.25
ATOM O	109	OG1	THR	A	970	17.629	0.997	57.493	1.00	39.66
ATOM C	110	CG2	THR	A	970	17.424	0.687	59.871	1.00	39.57
ATOM N	111	N	MET	A	971	21.113	2.753	58.022	1.00	40.35
ATOM C	112	CA	MET	A	971	22.114	3.049	57.005	1.00	42.42
ATOM C	113	С	MET	A	971	22.703	1.779	56.392	1.00	42.91
ATOM O	114	0	MET	A	971	23.467	1.056	57.032	1.00	43.50
ATOM C	115	СВ	MET	A	971	23.225	3.917	57.601	1.00	44.50
ATOM C	116	CG	MET	A	971	22.723	5.271	58.108	1.00	48.53
ATOM S	117	SD	MET	A	971	23.991	6.326	58.857	1.00	53.04
ATOM C	118	CE	MET	A	971	23.855	5.859	60.583	1.00	52.56
ATOM N	119	N	SER	A	972	22.339	1.522	55.140	1.00	42.76
ATOM C	120	CA	SER	A	972	22.794	0.344	54.410	1.00	42.00
ATOM C	121	С	SER	A	972	24.245	0.440	53.958	1.00	42.00
ATOM O	122	0	SER	A	972	25.031	-0.479	54.182	1.00	42.88
ATOM C	123	СВ	SER	Α	972	21.903	0.120	53.192	1.00	41.59
MOTA O	124	OG	SER	A	972	20.536	0.149	53.558	1.00	40.07
ATOM N	125	N	ARG	A	973	24.608	1.547	53.323	1.00	41.35
ATOM C	126	CA	ARG	A	973	25.973	1.707	52.849	1.00	40.60
ATOM C	127	С	ARG	A	973	26.315	3.167	52.584	1.00	40.77
ATOM O	128	0	ARG	A	973	25.434	4.029	52.558	1.00	40.69
ATOM C	129	СВ	ARG	A	973	26.174	0.886	51.571	1.00	40.64
ATOM C	130	CG	ARG	Α	973	25.340	1.360	50.393	1.00	41.00
ATOM C	131	CD	ARG	A	973	25.292	0.318	49.280	1.00	41.18
ATOM N	132	NE	ARG	A	973	24.550	0.799	48.118	1.00	40.75
ATOM C	133	CZ	ARG	A	973	25.023	1.684	47.246	1.00	41.48
ATOM	134	NH1	ARG	A	973	26.242	2.183	47.399	1.00	41.63

N ATOM	135	NH2	ARG	Α	973	24.273	2.077	46.225	1.00	41.21
N ATOM	136	N	GLU	Α	974	27.600	3.438	52.387	1.00	40.00
N ATOM C	137	CA	GLU	A	974	28.053	4.795	52.122	1.00	40.68
ATOM C	138	С	GLU	Α	974	27.873	5.141	50.651	1.00	40.66
ATOM O	139	0	GLU	Α	974	28.006	4.281	49.781	1.00	39.97
ATOM C	140	СВ	GLU	Α	974	29.531	4.953	52.483	1.00	40.54
ATOM C	141	CG	GLU	Α	974	29.936	4.327	53.800	1.00	41.79
ATOM C	142	CD	GLU	Α	974	31.352	4.701	54.202	1.00	43.69
ATOM O	143	OE1	GLU	Α	974	32.164	5.011	53.303	1.00	44.22
MOTA O	144	OE2	GLU	A	974	31.655	4.675	55.417	1.00	44.24
ATOM N	145	N	LEU	Α	975	27.572	6.408	50.381	1.00	40.52
ATOM C	146	CA	LEU	Α	975	27.398	6.885	49.016	1.00	40.32
ATOM C	147	С	LEU	A	975	28.586	7.760	48.656	1.00	41.01
ATOM O	148	0	LEU	A	975	29.071	7.733	47.525	1.00	41.29
ATOM C	149	СВ	LEU	A	975	26.104	7.693	48.886	1.00	39.38
ATOM C	150	CG	LEU	Α	975	24.799	6.896	48.896	1.00	38.21
ATOM C	151	CD1	LEU	Ą	975	23.611	7.840	48.828	1.00	37.29
ATOM C	152	CD2	LEU	A	975	24.790	5.944	47.713	1.00	38.39
ATOM N	153	N	GLY	Α	976	29.052	8.534	49.631	1.00	41.22
ATOM C	154	CA	GLY	A	976	30.187	9.410	49.402	1.00	41.29
ATOM C	155	С	GLY	Α	976	30.262	10.540	50.413	1.00	41.93
ATOM O	156	0	GLY	A	976	29.277	10.850	51.095	1.00	41.26
ATOM N	157	N	GLN	A	977	31.432	11.160	50.509	1.00	41.62
ATOM C	158	CA	GLN	A	977	31.643	12.260	51.444	1.00	42.16
ATOM C	159	С	GLN	A	977	30.937	13.524	50.956	1.00	42.04
ATOM O	160	0	GLN	A	977	31.020	13.868	49.775	1.00	41.71
ATOM C	161	СВ	GLN	A	977	33.141	12.540	51.599	1.00	42.98
ATOM C	162	CG	GLN	A	977	33.478	13.479	52.749	1.00	44.48
ATOM C	163	CD	GLN	A	977	33.309	12.823	54.112	1.00	45.05
ATOM	164	OE1	GLN	A	977	33.205	13.503	55.134	1.00	46.30

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O ATOM N	165	NE2	GLN	Α	977	33.293	11.498	54.132	1.00	45.57
ATOM N	166	N	GLY	A	978	30.245	14.210	51.866	1.00	41.93
ATOM C	167	CA	GLY	Α	978	29.541	15.431	51.504	1.00	42.28
ATOM C	168	С	GLY	A	978	30.184	16.700	52.048	1.00	42.84
ATOM	169	0	GLY	Α	978	31.322	16.681	52.515	1.00	41.43
O ATOM	170	N	SER	Α	979	29.454	17.813	51.987	1.00	43.33
N ATOM	171	CA	SER	A	979	29.958	19.093	52.484	1.00	43.50
C ATOM	172	С	SER	Α	979	30.268	19.080	53.971	1.00	43.21
C ATOM	173	0	SER	A	979	31.335	19.535	54.384	1.00	43.12
O ATOM	174	СВ	SER	Α	979	28.953	20.211	52.217	1.00	43.90
C ATOM	175	OG	SER	Α	979	28.965	20.588	50.856	1.00	44.70
O ATOM	176	N	PHE	А	980	29.338	18.562	54.771	1.00	42.89
N ATOM	177	CA	PHE	A	980	29.519	18.531	56.222	1.00	42.39
C ATOM	178	С	PHE	Α	980	29.767	17.141	56.813	1.00	40.83
C ATOM	179	0	PHE	Α	980	30.003	17.005	58.017	1.00	40.68
O ATOM	180	СВ	PHE	Α	980	28.300	19.156	56.921	1.00	43.82
C ATOM	181	CG	PHE	Α	980	27.806	20.426	56.281	1.00	44.33
C ATOM C	182	CD1	PHE	A	980	26.983	20.379	55.159	1.00	44.33
ATOM C	183	CD2	PHE	Α	980	28.171	21.668	56.791	1.00	44.40
ATOM	184	CE1	PHE	A	980	26.530	21.554	54.554	1.00	44.99
C ATOM	185	CE2	PHE	A	980	27.724	22.845	56.194	1.00	44.26
ATOM C	186	CZ	PHE	A	980	26.903	22.787	55.074	1.00	44.30
ATOM N	187	N	GLY	A	981	29.714	16.110	55.977	1.00	39.45
ATOM C	188	CA	GLY	A	981	29.929	14.764	56.475	1.00	37.15
ATOM C	189	С	GLY	A	981	29.562	13.686	55.470	1.00	36.28
ATOM O	190	0	GLY	Α	981	29.126	13.976	54.355	1.00	35.30
ATOM N	191	N	MET	Α	982	29.739	12.436	55.880	1.00	34.55
ATOM C	192	CA	MET	A	982	29.449	11.291	55.033	1.00	35.08
ATOM C	193	С	MET	A	982	27.967	11.149	54.704	1.00	34.10
ATOM	194	0	MET	A	982	27.105	11.301	55.578	1.00	33.48

O ATOM	195	СВ	MET	Α	982	29.942	10.011	55.715	1.00 36.	21
C ATOM	196	CG	MET	A	982	29.634	8.720	54.956	1.00 38.	11
C ATOM	197	SD	MET	Α	982	30.444	8.608	53.343	1.00 41.	33
S ATOM	198	CE	MET	Α	982	32.134	8.320	53.845	1.00 40.	06
C ATOM	199	N	VAL	Α	983	27.685	10.859	53.435	1.00 32.	54
N ATOM	200	CA	VAL	Α	983	26.320	10.647	52.964	1.00 31.	45
C ATOM	201	С	VAL	A	983	26.132	9.139	52.773	1.00 31.	57
C ATOM	202	0	VAL	A	983	26.961	8.483	52.140	1.00 31.	63
O ATOM	203	СВ	VAL	Α	983	26.066	11.336	51.611	1.00 30.	70
C ATOM	204	CG1	VAL	A	983	24.605	11.156	51.208	1.00 30.	44
C ATOM	205	CG2	VAL	A	983	26.425	12.808	51.697	1.00 30.	70
C ATOM N	206	N	TYR	A	984	25.047	8.595	53.315	1.00 31.	70
ATOM C	207	CA	TYR	A	984	24.771	7.164	53.210	1.00 32.	41
ATOM C	208	С	TYR	Α	984	23.450	6.882	52.510	1.00 32.	54
ATOM O	209	0	TYR	A	984	22.579	7.748	52.441	1.00 32.	44
ATOM C	210	CB	TYR	Α	984	24.658	6.532	54.597	1.00 33.	06
ATOM C	211	CG	TYR	Α	984	25.831	6.732	55.519	1.00 36.	00
ATOM C	212	CD1	TYR	A	984	26.921	5.862	55.499	1.00 36.	89
ATOM C	213	CD2	TYR	A	984	25.827	7.764	56.457	1.00 36.	24
ATOM C	214	CE1	TYR	A	984	27.976	6.011	56.403	1.00 38.	07
ATOM C	215	CE2	TYR	A	984	26.870	7.923	57.359	1.00 38.	11
ATOM C	216	CZ	TYR	Α	984	27.937	7.043	57.331	1.00 38.	31
ATOM O	217	ОН	TYR	A	984	28.947	7.191	58.251	1.00 40.	27
ATOM N	218	N	GLU	A	985	23.310	5.663	51.993	1.00 31.	06
ATOM C	219	CA	GLU	A	985	22.060	5.241	51.383	1.00 30.	67
ATOM C	220	С	GLU	A	985	21.442	4.380	52.469	1.00 29.	63
ATOM O	221	0	GLU	A	985	22.153	3.648	53.156	1.00 29.	69
ATOM C	222	CB	GLU	A	985	22.271	4.375	50.144	1.00 31.	31
ATOM C	223	CG	GLU	A	985	20.945	4.045	49.462	1.00 33.	99
ATOM	224	CD	GLU	A	985	21.046	2.920	48.449	1.00 34.	56

C ATOM	225	OE1	GLU	Α	985	21.997	2.922	47.642	1.00	34.97
O ATOM O	226	OE2	GLU	Α	985	20.159	2.039	48.456	1.00	35.98
ATOM N	227	N	GLY	A	986	20.131	4.460	52.634	1.00	28.39
ATOM C	228	CA	GLY	A	986	19.496	3.669	53.666	1.00	27.98
ATOM C	229	C	GLY	A	986	18.004	3.549	53.472	1.00	28.55
ATOM O	230	0	GLY	A	986	17.493	3.719	52.362	1.00	27.70
ATOM N	231	N	VAL	A	987	17.307	3.260	54.568	1.00	28.71
MOTA	232	CA	VAL	A	987	15.861	3.096	54.565	1.00	29.21
C ATOM C	233	С	.VAL	A	987	15.253	3.807	55.772	1.00	30.19
ATOM O	234	0	VAL	A	987	15.840	3.815	56.854	1.00	29.93
ATOM C	235	СВ	VAL	Α	987	15.491	1.597	54.627	1.00	29.24
ATOM C	236	CG1	VAL	A	987	13.995	1.428	54.856	1.00	29.21
ATOM C	237	CG2	VAL	A	987	15.922	0.908	53.341	1.00	28.19
ATOM N	238	N	ALA	Α	988	14.079	4.400	55.582	1.00	32.14
ATOM C	239	CA	ALA	A	988	13.392	5.102	56.658	1.00	33.84
ATOM C	240	С	ALA	A	988	11.932	4.667	56.717	1.00	35.57
ATOM O	241	0	ALA	A	988	11.296	4.487	55.684	1.00	36.23
ATOM C	242	СВ	ALA	A	988	13.482	6.605	56.438	1.00	33.15
MOTA N	243	N	LYS	A	989	11.405	4.502	57.927	1.00	37.47
ATOM C	244	CA	LYS	A	989	10.016	4.087	58.110	1.00	39.73
ATOM C	245	С	LYS	A	989	9.055	5.244	58.382	1.00	40.95
ATOM O	246	0	LYS	A	989	9.371	6.177	59.123	1.00	41.21
ATOM C	247	CB	LYS	A	989	9.909	3.082	59.260	1.00	40.71
ATOM C	248	CG	LYS	A	989	10.467	1.702	58.950	1.00	42.22
ATOM C	249	CD	LYS	A	989	10.319	0.785	60.155	1.00	43.91
ATOM C	250	CE	LYS	A	989	10.635 -	-0.662	59.800	1.00	45.22
ATOM	251	NZ	LYS	A	989	11.999 -	-0.809	59.218	1.00	45.44
N ATOM	252	N	GLY	A	990	7.879	5.165	57.770	1.00	41.88
N ATOM	253	CA	GLY	A	990	6.853	6.175	57.956	1.00	43.74
C ATOM	254	С	GLY	A	990	7.153	7.618	57.587	1.00	44.47

C ATOM	255	0	GLY	Α	990	6.676	8.527	58.264	1.00	45.15
O ATOM	256	N	VAL	Α	991	7.922	7.853	56.529	1.00	44.93
N ATOM	257	CA	VAL	Α	991	8.216	9.229	56.136	1.00	45.75
C ATOM	258	С	VAL	A	991	7.382	9.646	54.933	1.00	46.91
C ATOM	259	0	VAL	Α	991	7.274	10.834	54.622	1.00	46.90
O ATOM	260	СВ	VAL	Α	991	9.715	9.436	55.811	1.00	45.26
C ATOM	261	CG1	VAL	Α	991	10.539	9.290	57.080	1.00	44.24
C ATOM	262	CG2	VAL	Α	991	10.168	8.444	54.748	1.00	44.41
C ATOM	263	N	VAL	Α	992	6.795	8.665	54.258	1.00	47.70
N ATOM	264	CA	VAL	A	992	5.949	8.937	53.105	1.00	49.09
C ATOM	265	С	VAL	Α	992	4.592	8.293	53.344	1.00	49.93
C ATOM	266	0	VAL	A	992	4.509	7.180	53.857	1.00	49.76
O ATOM	267	СВ	VAL	Α	992	6.563	8.375	51.806	1.00	49.34
C ATOM	268	CG1	VAL	A	992	5.590	8.550	50.648	1.00	49.21
C ATOM	269	CG2	VAL	Α	992	7.871	9.092	51.503	1.00	49.10
C ATOM	270	N	LYS	Α	993	3.532	9.002	52.974	1.00	51.29
N ATOM C	271	CA	LYS	Α	993	2.171	8.507	53.153	1.00	52.83
ATOM C	272	С	LYS	Α	993	1.943	7.189	52.424	1.00	53.65
ATOM O	273	0	LYS	A	993	2.507	6.953	51.357	1.00	54.07
ATOM C	274	СВ	LYS	Α	993	1.163	9.545	52.653	1.00	51.97
ATOM N	275	N	ASP	Α	994	1.112	6.333	53.010	1.00	54.94
ATOM C	276	CA	ASP	Α	994	0.786	5.042	52.412	1.00	55.97
ATOM C	277	С	ASP	Α	994	2.040	4.267	52.034	1.00	55.80
ATOM O	278	0	ASP	A	994	2.005	3.410	51.149	1.00	56.16
ATOM C	279	СВ	ASP	Α	994	-0.069	5.249	51.159	1.00	57.48
ATOM C	280	CG	ASP	Α	994	-1.325	6.051	51.435	1.00	59.05
ATOM O	281	OD1	ASP	Α	994	-2.045	6.372	50.463	1.00	60.59
ATOM O	282	OD2	ASP	Α	994	-1.592	6.358	52.618	1.00	59.61
ATOM N	283	N	GLU	Α	995	3.147	4.566	52.702	1.00	55.41
MOTA	284	CA	GLU	A	995	4.403	3.893	52.404	1.00	54.70

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C ATOM C	285	С	GLU	A	995	5.076	3.466	53.706	1.00	54.06
ATOM O	286	0	GLU	Α	995	5.589	4.302	54.451	1.00	54.34
ATOM	287	СВ	GLU	Α	995	5.304	4.841	51.606	1.00	55.09
C ATOM	288	CG	GLU	Α	995	6.446	4.174	50.865	1.00	55.71
C ATOM C	289	CD	GLU	Α	995	7.075	5.092	49.824	1.00	56.21
ATOM	290	OE1	GLU	Α	995	6.359	5.511	48.888	1.00	56.04
O ATOM	291	OE2	GLU	Α	995	8.281	5.397	49.941	1.00	55.75
O ATOM	292	N	PRO	A	996	5.069	2.151	54.002	1.00	53.12
N ATOM	293	CA	PRO	A	996	5.674	1.594	55.219	1.00	51.72
C ATOM	294	С	PRO	Α	996	7.099	2.092	55.421	1.00	50.02
C ATOM	295	0	PRO	Α	996	7.408	2.740	56.423	1.00	50.22
O ATOM	296	СВ	PRO	Α	996	5.616	0.088	54.971	1.00	51.90
C ATOM	297	CG	PRO	A	996	4.364	-0.061	54.169	1.00	52.61
C ATOM	298	CD	PRO	Α	996	4.482	1.078	53.178	1.00	53.04
C ATOM	299	N	GLU	Α	997	7.963	1.783	54.462	1.00	47.90
N ATOM	300	CA	GLU	Α	997	9.351	2.214	54.522	1.00	45.91
C ATOM C	301	С	GLU	Α	997	9.720	2.860	53.191	1.00	43.19
ATOM	302	0	GLU	Α	997	9.071	2.611	52.178	1.00	43.01
O ATOM	303	СВ	GLU	Α	997	10.265	1.023	54.817	1.00	47.52
C ATOM	304	CG	GLU	A	997	10.274	-0.047	53.742	1.00	49.68
C ATOM	305	CD	GLU	Α	997	11.183	-1.212	54.099	1.00	51.52
C ATOM	306	OE1	GLU	Α	997	11.441	-2.064	53.219	1.00	51.66
O ATOM	307	OE2	GLU	A	997	11.635	-1.274	55.265	1.00	52.37
O ATOM	308	N	THR	Α	998	10.759	3.688	53.194	1.00	40.04
N ATOM	309	CA	THR	A	998	11.183	4.383	51.983	1.00	36.94
C ATOM C	310	С	THR	А	998	12.705	4.402	51.848	1.00	35.09
ATOM	311	0	THR	Α	998	13.419	4.554	52.834	1.00	34.34
O ATOM	312	СВ	THR	Α	998	10.679	5.852	51.993	1.00	36.96
C ATOM	313	OG1	THR	Α	998	9.257	5.876	52.193	1.00	35.71
O ATOM	314	CG2	THR	Α	998	11.024	6.557	50.678	1.00	35.95

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ATOM	315	N	ARG	A 999	13.195	4.241	50.623	1.00	33.08
N ATOM	316	CA	ARG	A 999	14.628	4.282	50.375	1.00	31.04
C ATOM	317	С	ARG	A 999	15.019	5.748	50.472	1.00	30.15
C ATOM	318	0	ARG	A 999	14.330	6.619	49.938	1.00	30.07
O ATOM	319	СВ	ARG	A 999	14.951	3.734	48.991	1.00	30.92
C ATOM	320	CG	ARG	A 999	14.590	2.259	48.825	1.00	30.29
C ATOM	321	CD	ARG	A 999	15.050	1.751	47.479	1.00	28.63
C ATOM	322	NE	ARG	A 999	16.503	1.802	47.337	1.00	26.75
N ATOM	323	CZ	ARG	A 999	17.137	1.633	46.180	1.00	27.18
C ATOM	324	NH1	ARG	A 999	16.437	1.405	45.074	1.00	27.39
N ATOM	325	NH2	ARG	A 999	18.463	1.702	46.122	1.00	26.05
N ATOM	326	N	VAL	A1000	16.123	6.026	51.148	1.00	28.18
N ATOM	327	CA	VAL	A1000	16.531	7.403	51.335	1.00	26.85
C ATOM	328	С	VAL	A1000	18.030	7.618	51.271	1.00	26.53
C ATOM	329	0	VAL	A1000	18.820	6.676	51.341	1.00	25.04
O ATOM	330	СВ	VAL	A1000	16.056	7.918	52.714	1.00	25.84
C ATOM C	331	CG1	VAL	A1000	14.544	7.838	52.816	1.00	25.72
MOTA	332	CG2	VAL	A1000	16.701	7.081	53.824	1.00	26.38
C ATOM	333	N	ALA	A1001	18.401	8.885	51.129	1.00	25.56
N ATOM	334	CA	ALA	A1001	19.788	9.293	51.131	1.00	26.45
C ATOM	335	С	ALA	A1001	19.913	9.884	52.537	1.00	27.13
C ATOM	336	0	ALA	A1001	19.026	10.607	52.992	1.00	28.04
O ATOM	337	СВ	ALA	A1001	20.035	10.355	50.069	1.00	26.46
C ATOM	338	N	ILE	A1002	20.994	9.575	53.235	1.00	27.93
N ATOM	339	CA	ILE	A1002	21.163	10.076	54.594	1.00	28.34
C ATOM	340	С	ILE	A1002	22.404	10.941	54.690	1.00	28.81
C ATOM	341	0	ILE	A1002	23.526	10.434	54.632	1.00	28.83
O ATOM	342	СВ	ILE	A1002	21.282	8.913	55.604	1.00	28.26
C ATOM	343	CG1	ILE	A1002	20.051	8.012	55.499	1.00	27.61
C ATOM	344	CG2	ILE	A1002	21.418	9.460	57.022	1.00	28.65

C ATOM	345	CD1	ILE	A1002	20.205	6.670	56.181	1.00	28.21
C ATOM	346	N	LYS	A1003	22.193	12.247	54.829	1.00	27.96
N ATOM	347	CA	LYS	A1003	23.292	13.195	54.952	1.00	29.44
C ATOM	348	С	LYS	A1003	23.563	13.427	56.433	1.00	29.61
C ATOM O	349	0	LYS	A1003	22.646	13.722	57.201	1.00	28.96
ATOM C	350	СВ	LYS	A1003	22.925	14.514	54.280	1.00	30.74
ATOM C	351	CG	LYS	A1003	22.380	14.347	52.869	1.00	33.46
ATOM C	352	CD	LYS	A1003	22.359	15.669	52.130	1.00	35.48
ATOM C	353	CE	LYS	A1003	23.769	16.215	51.972	1.00	36.55
ATOM N	354	NZ	LYS	A1003	23.797	17.520	51.249	1.00	37.55
ATOM N	355	N	THR	A1004	24.824	13.299	56.829	1.00	29.25
ATOM C	356	CA	THR	A1004	25.199	13.476	58.225	1.00	31.12
ATOM C	357	С	THR	A1004	26.189	14.623	58.442	1.00	33.55
ATOM O	358	0	THR	A1004	26.832	15.105	57.505	1.00	32.47
ATOM C	359	СВ	THR	A1004	25.858	12.198	58.780	1.00	30.01
ATOM O	360	OG1	THR	A1004	27.206	12.118	58.303	1.00	27.44
ATOM C	361	CG2	THR	A1004	25.110	10.963	58.310	1.00	28.47
ATOM N	362	N	VAL	A1005	26.302	15.053	59.696	1.00	36.03
ATOM C	363	CA	VAL	A1005	27.241	16.102	60.068	1.00	38.67
ATOM C	364	С	VAL	A1005	28.238	15.463	61.029	1.00	40.30
ATOM O	365	0	VAL	A1005	27.836	14.841	62.010	1.00	41.08
ATOM C	366	СВ	VAL	A1005	26.560	17.261	60.815	1.00	39.07
ATOM C	367	CG1	VAL	A1005	27.571	18.364	61.095	1.00	38.86
ATOM C	368	CG2	VAL	A1005	25.423	17.796	60.007	1.00	39.63
ATOM N	369	N	ASN	A1006	29.529	15.612	60.746	1.00	42.46
ATOM C	370	CA	ASN	A1006	30.560	15.050	61.612	1.00	44.36
ATOM C	371	С	ASN	A1006	30.299	15.509	63.048	1.00	45.44
ATOM O	372	0		A1006	30.086	16.698	63.300	1.00	46.18
ATOM C	373	CB		A1006	31.946	15.516	61.158	1.00	44.37
ATOM	374	N	GLU	A1007	30.310	14.565	63.984	1.00	45.88

N ATOM C	375	CA	GLU	A1007	30.067	14.876	65.388	1.00	46.50
ATOM C	376	С	GLU	A1007	31.098	15.867	65.918	1.00	46.58
ATOM	377	0	GLU	A1007	30.961	16.390	67.028	1.00	47.16
O ATOM C	378	СВ	GLU	A1007	30.110	13.594	66.224	1.00	47.14
ATOM	379	N	ALA	A1008	32.128	16.120	65.117	1.00	45.76
N ATOM C	380	CA	ALA	A1008	33.187	17.043	65.498	1.00	44.89
ATOM C	381	С	ALA	A1008	33.037	18.395	64.811	1.00	44.18
ATOM O	382	0	ALA	A1008	33.836	19.304	65.038	1.00	44.39
ATOM C	383	СВ	ALA	A1008	34.542	16.439	65.163	1.00	45.31
ATOM N	384	N	ALA	A1009	32.015	18.528	63.972	1.00	42.56
ATOM C	385	CA	ALA	A1009	31.782	19.776	63.253	1.00	40.75
ATOM C	386	С	ALA	A1009	31.551	20.937	64.211	1.00	39.88
ATOM O	387	0	ALA	A1009	31.125	20.743	65.351	1.00	39.38
ATOM C	388	СВ	ALA	A1009	30.582	19.627	62.322	1.00	41.33
ATOM N	389	N	SER	A1010	31.832	22.144	63.735	1.00	38.35
ATOM C	390	CA	SER	A1010	31.659	23.348	64.538	1.00	37.55
ATOM C .	391	С	SER	A1010	30.210	23.804	64.520	1.00	36.97
ATOM O	392	0	SER	A1010	29.409	23.342	63.707	1.00	35.60
ATOM C	393	СВ	SER	A1010	32.535	24.475	63.992	1.00	37.35
ATOM O	394	OG	SER	A1010	32.130	24.842	62.684	1.00	37.89
ATOM N	395	N	MET	A1011	29.883	24.719	65.425	1.00	36.72
ATOM C	396	CA	MET	A1011	28.540	25.263	65.505	1.00	36.44
ATOM C	397	С	MET	A1011	28.231	25.935	64.175	1.00	35.51
ATOM O	398	0	MET	A1011	27.119	25.824	63.647	1.00	34.89
ATOM C	399	СВ	MET	A1011	28.458	26.284	66.642	1.00	38.74
ATOM C	400	CG	MET	A1011	27.121	26.996	66.749	1.00	39.78
ATOM S	401	SD	MET	A1011	27.083	28.091	68.184	1.00	43.32
ATOM C	402	CE	MET	A1011	26.780	26.880	69.449	1.00	40.68
	403	N	ARG	A1012	29.227	26.631	63.635	1.00	33.97
	404	CA	ARG	A1012	29.073	27.317	62.359	1.00	33.88

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C ATOM C	405	С	ARG	A1012	28.614	26.351	61.265	1.00	33.25
ATOM O	406	0	ARG	A1012	27.675	26.637	60.525	1.00	31.65
ATOM C	407	CB	ARG	A1012	30.399	27.963	61.941	1.00	34.27
ATOM N	408	N	GLU	A1013	29.286	25.210	61.170	1.00	33.17
ATOM C	409	CA	GLU	A1013	28.952	24.211	60.166	1.00	34.41
ATOM C	410	С	GLU	A1013	27.591	23.582	60.428	1.00	33.95
MOTA O	411	0	GLU	A1013	26.789	23.404	59.504	1.00	34.15
ATOM C	412	СВ	GLU	A1013	30.039	23.134	60.121	1.00	35.87
ATOM C	413	CG	GLU	A1013	31.376	23.674	59.634	1.00	40.38
ATOM C	414	CD	GLU	A1013	32.504	22.669	59.750	1.00	43.12
ATOM O	415	OE1	GLU	A1013	32.845	22.274	60.888	1.00	44.34
ATOM O	416	OE2	GLU	A1013	33.052	22.275	58.698	1.00	45.74
ATOM N	417	N	ARG	A1014	27.329	23.247	61.687	1.00	33.08
ATOM C	418	CA	ARG	A1014	26.056	22.646	62.052	1.00	31.81
ATOM C	419	С	ARG	A1014	24.908	23.582	61.709	1.00	29.76
ATOM O	420	0	ARG	A1014	23.851	23.141	61.263	1.00	28.31
ATOM C	421	СВ	ARG	A1014	26.041	22.280	63.544	1.00	33.29
ATOM C	422	CG	ARG	A1014	26.353	20.805	63.784	1.00	36.77
ATOM C	423	CD	ARG	A1014	26.325	20.391	65.254	1.00	37.69
ATOM N	424	NE	ARG	A1014	27.518	20.821	65.979	1.00	39.41
ATOM C	425	CZ	ARG	A1014	27.577	21.883	66.776	1.00	40.59
ATOM N	426	NH1	ARG	A1014	26.504	22.642	66.966	1.00	40.66
ATOM N	427	NH2	ARG	A1014	28.716	22.189	67.384	1.00	41.03
ATOM N	428	N	ILE	A1015	25.115	24.877	61.911	1.00	28.79
ATOM C	429	CA	ILE	A1015	24.083	25.856	61.595	1.00	28.64
ATOM C	430	С	ILE	A1015	23.818	25.888	60.083	1.00	28.72
ATOM O	431	0	ILE			25.889		1.00	29.03
ATOM C	432	СВ	ILE			27.268		1.00	28.51
ATOM C	433	CG1	ILE			27.306		1.00	29.00
MOTA	434	CG2	ILE	A1015	23.572	28.330	61.483	1.00	28.32

С									
ATOM C	435	CD1	ILE	A1015	24.747	28.671	64.224	1.00	29.26
ATOM N	436	N	GLU	A1016	24.882	25.914	59.283	1.00	28.77
ATOM C	437	CA	GLU	A1016	24.731	25.929	57.828	1.00	29.65
ATOM C	438	С	GLU	A1016	24.030	24.654	57.365	1.00	28.59
MOTA	439	0	GLU	A1016	23.146	24.688	56.513	1.00	28.32
O ATOM	440	СВ	GLU	A1016	26.101	26.038	57.150	1.00	30.99
C ATOM C	441	CG	GLU	A1016	26.725	27.424	57.230	1.00	34.54
ATOM C	442	CD	GLU	A1016	28.135	27.457	56.662	1.00	37.56
ATOM O	443	OE1	GLU	A1016	28.673	28.570	56.480	1.00	38.68
ATOM O	444	OE2	GLU	A1016	28.707	26.369	56.405	1.00	37.28
ATOM N	445	N	PHE	A1017	24.430	23.525	57.933	1.00	28.67
ATOM C	446	CA	PHE	A1017	23.816	22.253	57.577	1.00	28.83
ATOM C	447	С	PHE	A1017	22.305	22.284	57.822	1.00	28.43
ATOM O	448	0	PHE	A1017	21.509	21.950	56.939	1.00	28.30
ATOM C	449	СВ	PHE	A1017	24.427	21.135	58.407	1.00	29.50
ATOM C	450	CG	PHE	A1017	23.870	19.780	58.098	1.00	30.85
ATOM C	451	CD1	PHE	A1017	24.367	19.036	57.034	1.00	31.10
ATOM C	452	CD2	PHE	A1017	22.865	19.232	58.890	1.00	30.55
ATOM C	453	CE1	PHE	A1017	23.879	17.760	56.767	1.00	32.40
ATOM C	454	CE2	PHE	A1017	22.372	17.961	58.632	1.00	32.09
ATOM C	455	CZ	PHE	A1017	22.881	17.221	57.567	1.00	32.24
ATOM N	456	N	LEU	A1018	21.914	22.687	59.028	1.00	27.78
ATOM C	457	CA	LEU	A1018	20.506	22.741	59.395	1.00	28.40
ATOM C	458	С	LEU	A1018	19.736	23.815	58.633	1.00	28.48
ATOM O	459	0	LEU	A1018	18.550	23.635	58.333	1.00	28.25
ATOM C	460	СВ	LEU	A1018	20.360	22.945	60.910	1.00	28.52
ATOM C	461	CG	LEU	A1018	20.819	21.755	61.772	1.00	28.64
ATOM C	462	CD1	LEU	A1018	20.736	22.106	63.258	1.00	29.37
ATOM C	463	CD2	LEU	A1018	19.946	20.547	61.474	1.00	28.69
ATOM	464	N	ASN	A1019	20.399	24.925	58.315	1.00	27.61

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ATOM C	465	CA	ASN	A1019	19.738	25.992	57.565	1.00 28.10
ATOM C	466	С	ASN	A1019	19.342	25.482	56.180	1.00 27.59
MOTA O	467	0	ASN	A1019	18.292	25.849	55.662	1.00 28.59
ATOM C	468	СВ	ASN	A1019	20.652	27.220	57.429	1.00 28.83
ATOM C	469	CG	ASN	A1019	20.615	28.130	58.657	1.00 30.96
ATOM O	470	OD1	ASN	A1019	21.354	29.114	58.735	1.00 33.38
ATOM N	471	ND2	ASN	A1019	19.751	27.813	59.610	1.00 30.20
ATOM N	472	N	GLU	A1020	20.174	24.636	55.577	1.00 28.93
ATOM C	473	CA	GLU	A1020	19.840	24.107	54.257	1.00 29.91
ATOM C	474	С	GLU	A1020	18.603	23.226	54.368	1.00 29.33
MOTA	475	0	GLU	A1020	17.754	23.221	53.479	1.00 28.45
O ATOM	476	CB	GLU	A1020	20.989	23.286	53.652	1.00 31.26
C ATOM	477	CG	GLU	A1020	20.929	23.267	52.118	1.00 34.52
C ATOM	478	CD	GLU	A1020	21.895	22.290	51.461	1.00 35.77
C ATOM	479	OE1	GLU	A1020	23.046	22.172	51.941	1.00 36.35
O ATOM	480	OE2	GLU	A1020	21.499	21.657	50.448	1.00 34.94
O ATOM	481	N	ALA	A1021	18.503	22.480	55.464	1.00 29.92
N ATOM	482	CA	ALA	A1021	17.352	21.605	55.672	1.00 28.63
C ATOM	483	С	ALA	A1021	16.105	22.454	55.847	1.00 28.13
C ATOM	484	0	ALA	A1021	15.050	22.145	55.292	1.00 27.78
O ATOM	485	CB	ALA	A1021	17.561	20.736	56.897	1.00 28.54
ATOM	486	N	SER	A1022	16.229	23.531	56.619	1.00 28.33
N ATOM	487	CA	SER	A1022	15.095	24.408	56.863	1.00 30.00
C ATOM	488	С	SER	A1022	14.537	24.967	55.572	1.00 29.19
C ATOM O	489	0	SER	A1022	13.322	24.987	55.377	1.00 29.95
ATOM	490	СВ	SER	A1022	15.486	25.554	57.796	1.00 30.68
C ATOM	491	OG	SER	A1022	15.634	25.072	59.118	1.00 35.71
O ATOM	492	N	VAL	A1023	15.422	25.426	54.694	1.00 28.82
N ATOM	493	CA	VAL	A1023	14.996	25.971	53.410	1.00 29.04
C ATOM	494	С	VAL	A1023	14.229	24.909	52.616	1.00 28.36

С								
MOTA	495	0	VAL	A1023	13.214	25.205	51.988	1.00 27.63
O ATOM	496	СВ	VAL	A1023	16.212	26.450	52.574	1.00 30.40
C ATOM	497	CG1	VAL	A1023	15.757	26.926	51.211	1.00 32.10
C ATOM	498	CG2	VAL	A1023	16.923	27.585	53.295	1.00 32.26
C ATOM	499	N	MET	A1024	14.719	23.673	52.650	1.00 27.76
N ATOM	500	CA	MET	A1024	14.086	22.578	51.919	1.00 27.18
C ATOM	501	С	MET	A1024	12.689	22.221	52.419	1.00 26.74
C ATOM	502	0	MET	A1024	11.880	21.680	51.664	1.00 26.51
O ATOM	503	СВ	MET	A1024	14.978	21.330	51.960	1.00 27.59
C ATOM	504	CG	MET	A1024	16.279	21.473	51.183	1.00 29.37
C ATOM	505	SD	MET	A1024	17.257	19.952	51.179	1.00 31.09
S ATOM C	506	CE	MET	A1024	16.304	18.975	50.036	1.00 32.26
ATOM N	507	N	LYS	A1025	12.401	22.518	53.684	1.00 26.06
ATOM C	508	CA	LYS	A1025	11.086	22.213	54.247	1.00 26.22
ATOM C	509	С	LYS	A1025	9.986	22.947	53.480	1.00 26.76
ATOM O	510	0	LYS	A1025	8.817	22.558	53.519	1.00 26.79
ATOM C	511	СВ	LYS	A1025	11.016	22.629	55.719	1.00 24.68
ATOM C	512	CG	LYS	A1025	11.914	21.848	56.651	1.00 25.83
ATOM C	513	CD	LYS	A1025	11.798	22.354	58.084	1.00 25.80
ATOM C	514	CE	LYS	A1025	12.712	21.561	59.006	1.00 26.79
ATOM N	515	NZ	LYS	A1025	12.829	22.161	60.369	1.00 27.33
ATOM N	516	N	GLU	A1026	10.370	24.009	52.784	1.00 27.26
ATOM C	517	CA	GLU	A1026	9.418	24.816	52.027	1.00 28.93
ATOM C	518	С	GLU	A1026	9.116	24.278	50.632	1.00 28.15
ATOM O	519	0	GLU	A1026	8.174	24.732	49.987	1.00 29.37
ATOM C	520	СВ	GLU	A1026	9.953	26.242	51.883	1.00 29.97
ATOM C	521	CG	GLU	A1026	10.406	26.876	53.184	1.00 34.59
ATOM C	522	CD	GLU	A1026	9.246	27.289	54.063	1.00 35.61
ATOM O	523	OE1	GLU	A1026	9.481	27.635	55.237	1.00 38.33
ATOM	524	OE2	GLU	A1026	8.097	27.277	53.578	1.00 38.45

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O ATOM	525	N	PHE	A1027	9.900	23.317	50.160	1.00 27.46
N ATOM	526	CA	PHE	A1027	9.693	22.806	48.813	1.00 27.10
C ATOM	527	С	PHE	A1027	8.897	21.518	48.673	1.00 27.81
C ATOM	528	0	PHE	A1027	9.106	20.554	49.406	1.00 27.51
O ATOM	529	СВ	PHE	A1027	11.034	22.606	48.098	1.00 26.07
C ATOM	530	CG	PHE	A1027	11.996	23.749	48.255	1.00 26.22
C ATOM	531	CD1	PHE	A1027	11.542	25.059	48.338	1.00 26.62
C ATOM	532	CD2	PHE	A1027	13.369	23.512	48.295	1.00 25.86
C ATOM	533	CE1	PHE	A1027	12.443	26.123	48.459	1.00 26.38
C ATOM	534	CE2	PHE	A1027	14.274	24.569	48.416	1.00 24.98
C ATOM	535	CZ	PHE	A1027	13.811	25.872	48.498	1.00 25.20
C ATOM N	536	N	ASN	A1028	7.984	21.524	47.706	1.00 27.62
ATOM C	537	CA	ASN	A1028	7.169	20.363	47.387	1.00 29.09
ATOM C	538	С	ASN	A1028	6.992	20.369	45.876	1.00 28.59
ATOM O	539	0	ASN	A1028	5.976	20.839	45.350	1.00 28.57
ATOM C	540	СВ	ASN	A1028	5.802	20.429	48.070	1.00 31.22
ATOM C	541	CG	ASN	A1028	4.955	19.212	47.764	1.00 33.69
ATOM O	542	OD1	ASN	A1028	5.448	18.086	47.784	1.00 35.80
ATOM N	543	ND2	ASN	A1028	3.673	19.429	47.482	1.00 34.25
ATOM N	544	N	CYS	A1029	7.994	19.850	45.180	1.00 26.02
ATOM C	545	CA	CYS	A1029	7.959	19.817	43.726	1.00 25.87
ATOM C	546	С	CYS	A1029	8.617	18.559	43.201	1.00 24.25
ATOM O	547	0	CYS	A1029	9.654	18.138	43.705	1.00 23.96
ATOM C	548	СВ	CYS	A1029	8.671	21.050	43.151	1.00 24.18
ATOM S	549	SG	CYS	A1029	8.765	21.083	41.349	1.00 25.38
ATOM N	550	N	HIS	A1030	8.005	17.967	42.181	1.00 24.43
ATOM C	551	CA	HIS	A1030	8.513	16.744	41.569	1.00 24.24
ATOM C	552	С	HIS	A1030	9.927	16.911	41.014	1.00 23.18
ATOM O	553	0	HIS	A1030	10.683	15.945	40.933	1.00 23.16
ATOM	554	CB	HIS	A1030	7.574	16.301	40.439	1.00 24.97

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C ATOM	555	CG	HIS	A1030	7.961	15.003	39.801	1.00 25.96
C ATOM	556	ND1	HIS	A1030	7.805	13.787	40.432	1.00 26.64
N ATOM	557	CD2	HIS	A1030	8.511	14.732	38.593	1.00 25.58
C ATOM C	558	CE1	HIS	A1030	8.242	12.823	39.640	1.00 25.98
ATOM N	559	NE2	ніѕ	A1030	8.675	13.369	38.519	1.00 26.10
ATOM N	560	N	HIS	A1031	10.288	18.131	40.627	1.00 22.43
ATOM C	561	CA	HIS	A1031	11.616	18.363	40.072	1.00 21.21
ATOM C	562	С	HIS	A1031	12.609	19.036	41.021	1.00 21.42
ATOM O	563	0	HIS	A1031	13.580	19.658	40.593	1.00 20.37
ATOM C	564	CB	HIS	A1031	11.494	19.138	38.764	1.00 22.26
ATOM C	565	CG	HIS	A1031	10.789	18.370	37.687	1.00 22.62
ATOM N	566	ND1	HIS	A1031	9.572	18.754	37.169	1.00 23.92
ATOM C	567	CD2	HIS	A1031	11.129	17.228	37.046	1.00 22.82
ATOM C	568	CE1	HIS	A1031	9.193	17.884	36.250	1.00 21.64
ATOM N	569	NE2	HIS	A1031	10.119	16.949	36.156	1.00 23.81
ATOM N	570	N	VAL	A1032	12.348	18.903	42.317	1.00 20.99
ATOM C	571	CA	VAL	A1032	13.242	19.413	43.349	1.00 20.52
ATOM C	572	С	VAL	A1032	13.423	18.241	44.311	1.00 20.81
ATOM O	573	0	VAL	A1032	12.435	17.655	44.759	1.00 20.38
ATOM C	574	CB	VAL	A1032	12.638	20.614	44.104	1.00 20.38
ATOM C	575	CG1	VAL	A1032	13.562	21.017	45.241	1.00 20.77
ATOM C	576	CG2	VAL	A1032	12.444	21.793	43.142	1.00 19.61
ATOM N	577	N	VAL	A1033	14.670	17.887	44.621	1.00 21.12
ATOM C	578	CA	VAL	A1033	14.932	16.769	45.530	1.00 21.57
ATOM C	579	С	VAL	A1033	14.212	17.030	46.847	1.00 22.51
ATOM O	580	0	VAL	A1033	14.377	18.076	47.473	1.00 21.03
ATOM C	581	СВ	VAL	A1033	16.434	16.587	45.765	1.00 22.42
ATOM C	582	CG1	VAL	A1033	16.678	15.404	46.685	1.00 23.80
ATOM C	583	CG2	VAL	A1033	17.130	16.352	44.423	1.00 23.48
ATOM	584	N	ARG	A1034	13.407	16.063	47.265	1.00 23.91

N ATOM C	585	CA	ARG	A1034	12.587	16.216	48.460	1.00	25.04
ATOM C	586	С	ARG	A1034	13.176	15.898	49.836	1.00	24.63
ATOM O	587	0	ARG	A1034	13.800	14.853	50.039	1.00	23.93
ATOM C	588	СВ	ARG	A1034	11.292	15.427	48.230	1.00	28.33
ATOM C	589	CG	ARG	A1034	10.480	15.112	49.464	1.00	34.98
ATOM C	590	CD	ARG	A1034	9.022	14.864	49.091	1.00	39.09
ATOM N	591	NE	ARG	A1034	8.257	16.105	49.172	1.00	43.55
ATOM C	592	CZ	ARG	A1034	8.023	16.758	50.309	1.00	45.73
ATOM N	593	NH1	ARG	A1034	8.490	16.278	51.458	1.00	46.48
ATOM N	594	NH2	ARG	A1034	7.343	17.900	50.301	1.00	46.67
MOTA N	595	N	LEU	A1035	12.970	16.816	50.781	1.00	23.82
ATOM C	596	CA	LEU	A1035	13.428	16.624	52.158	1.00	23.93
ATOM C	597	С	LEU	A1035	12.399	15.684	52.751	1.00	24.00
ATOM O	598	0	LEU	A1035	11.201	15.870	52.540	1.00	23.93
ATOM C	599	CB	LEU	A1035	13.408	17.938	52.951	1.00	22.50
ATOM C	600	CG	LEU	A1035	13.690	17.765	54.451	1.00	20.93
ATOM C	601	CD1	LEU	A1035	15.119	17.250	54.651	1.00	18.95
ATOM C	602	CD2	LEU	A1035	13.490	19.092	55.178	1.00	20.02
ATOM N	603	N	LEU	A1036	12.846	14.678	53.493	1.00	23.70
ATOM C	604	CA	LEU	A1036	11.903	13.725	54.058	1.00	23.90
ATOM C	605	С	LEU	A1036	11.888	13.713	55.575	1.00	24.15
ATOM O	606	0	LEU	A1036	10.951	13.208	56.185	1.00	24.10
ATOM C	607	СВ	LEU	A1036	12.201	12.321	53.526	1.00	24.31
ATOM C	608	CG	LEU	A1036	11.856	12.106	52.047	1.00	23.87
ATOM C	609	CD1	LEU	A1036	12.400	10.777	51.571	1.00	23.51
ATOM C	610	CD2	LEU	A1036	10.346	12.157	51.871	1.00	23.91
ATOM N	611	N	GLY	A1037	12.921	14.271	56.189	1.00	24.11
ATOM C	612	CA	GLY	A1037	12.964	14.285	57.634	1.00	23.68
ATOM C	613	С	GLY	A1037	14.289	14.757	58.180	1.00	23.53
MOTA	614	0	GLY	A1037	15.282	14.851	57.451	1.00	21.14

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MOTA	615	N	VAL	A1038	14.291	15.054	59.474	1.00 23.62
N ATOM	616	CA	VAL	A1038	15.474	15.534	60.162	1.00 25.35
C ATOM	617	С	VAL	A1038	15.597	14.839	61.506	1.00 25.98
C ATOM	618	0	VAL	A1038	14.603	14.627	62.199	1.00 26.60
O ATOM	619	СВ	VAL	A1038	15.379	17.052	60.443	1.00 26.56
C ATOM	620	CG1	VAL	A1038	16.673	17.545	61.096	1.00 27.10
C ATOM	621	CG2	VAL	A1038	15.091	17.805	59.157	1.00 27.73
C ATOM	622	N	VAL	A1039	16.819	14.481	61.875	1.00 25.95
N ATOM	623	CA	VAL	A1039	17.056	13.852	63.165	1.00 26.21
C ATOM	624	С	VAL	A1039	17.957	14.825	63.916	1.00 26.51
C ATOM	625	0	VAL	A1039	19.171	14.816	63.731	1.00 25.71
O ATOM	626	СВ	VAL	A1039	17.765	12.493	63.011	1.00 25.90
C ATOM	627	CG1	VAL	A1039	18.037	11.891	64.386	1.00 28.75
C ATOM	628	CG2	VAL	A1039	16.904	11.548	62.200	1.00 27.03
C ATOM	629	N	SER	A1040	17.365	15.671	64.755	1.00 27.50
N ATOM C	630	CA	SER	A1040	18.152	16.662	65.488	1.00 28.61
ATOM	631	С	SER	A1040	18.339	16.337	66.964	1.00 29.07
C ATOM O	632	0	SER	A1040	18.714	17.203	67.756	1.00 29.61
ATOM C	633	СВ	SER	A1040	17.539	18.060	65.327	1.00 28.79
ATOM O	634	OG	SER	A1040	16.192	18.101	65.761	1.00 29.64
ATOM N	635	N	GLN	A1041	18.074	15.086	67.321	1.00 28.85
ATOM C	636	CA	GLN	A1041	18.249	14.608	68.685	1.00 28.59
ATOM C	637	С	GLN	A1041	19.326	13.532	68.620	1.00 29.49
ATOM O	638	0	GLN	A1041	19.235	12.603	67.813	1.00 28.65
ATOM	639	СВ	GLN	A1041	16.953	13.998	69.227	1.00 28.47
C ATOM C	640	CG	GLN	A1041	15.878	14.999	69.645	1.00 28.81
ATOM C	641	CD	GLN	A1041	16.233	15.767	70.914	1.00 29.03
ATOM O	642	OE1	GLN	A1041	16.658	15.180	71.912	1.00 27.92
ATOM N	643	NE2	GLN	A1041	16.042	17.084	70.885	1.00 28.40
ATOM	644	N	GLY	A1042	20.346	13.660	69.461	1.00 29.78

N ATOM C	645	CA	GLY	A1042	21.416	12.681	69.473	1.00	30.56
ATOM C	646	С	GLY	A1042	22.450	12.906	68.390	1.00	30.69
ATOM O	647	0	GLY	A1042	22.362	13.873	67.633	1.00	30.15
ATOM N	648	N	GLN	A1043	23.429	12.006	68.323	1.00	31.46
ATOM C	649	CA	GLN	A1043	24.515	12.079	67.346	1.00	32.43
ATOM C	650	С	GLN	A1043	24.522	10.850	66.440	1.00	32.77
ATOM O	651	0	GLN	A1043	24.241	9.743	66.891	1.00	33.12
ATOM C	652	СВ	GLN	A1043	25.866	12.151	68.059	1.00	34.00
ATOM C	653	CG	GLN	A1043	26.148	13.442	68.812	1.00	37.12
ATOM C	654	CD	GLN	A1043	26.205	14.644	67.900	1.00	39.01
ATOM O	655	OE1	GLN	A1043	26.735	14.571	66.790	1.00	40.86
ATOM N	656	NE2	GLN	A1043	25.669	15.766	68.367	1.00	40.27
ATOM N	657	N	PRO	A1044	24.846	11.031	65.149	1.00	32.54
ATOM C	658	CA	PRO	A1044	25.186	12.322	64.549	1.00	32.39
ATOM C	659	С	PRO	A1044	23.914	13.000	64.050	1.00	32.36
ATOM O	660	0	PRO	A1044	22.865	12.363	63.955	1.00	33.32
ATOM C	661	СВ	PRO	A1044	26.110	11.928	63.408	1.00	33.13
ATOM C	662	CG	PRO	A1044	25.473	10.668	62.920	1.00	32.65
ATOM C	663	CD	PRO	A1044	25.155	9.930	64.215	1.00	32.82
ATOM N	664	N	THR	A1045	24.001	14.287	63.736	1.00	31.62
ATOM C	665	CA	THR	A1045	22.838	15.007	63.235	1.00	31.95
ATOM C	666	С	THR	A1045	22.611	14.528	61.807	1.00	32.04
ATOM O	667	0	THR	A1045	23.544	14.512	61.009	1.00	31.50
ATOM C	668	СВ	THR	A1045	23.078	16.527	63.238	1.00	30.98
ATOM O	669	OG1	THR	A1045	23.368	16.951	64.574	1.00	32.60
ATOM C	670	CG2	THR	A1045	21.843	17.267	62.734	1.00	30.05
ATOM N	671	N	LEU	A1046	21.375	14.142	61.494	1.00	31.79
ATOM C	672	CA	LEU	A1046	21.040	13.620	60.171	1.00	31.21
ATOM C	673	С	LEU	A1046	19.897	14.355	59.488	1.00	30.26
ATOM	674	0	LEU	A1046	19.038	14.962	60.129	1.00	29.16

O ATOM C	675	СВ	LEU	A1046	20.624	12.146	60.268	1.00 31.56
ATOM C	676	CG	LEU	A1046	21.428	11.113	61.055	1.00 32.73
ATOM C	677	CD1	LEU	A1046	20.616	9.840	61.169	1.00 33.67
ATOM C	678	CD2	LEU	A1046	22.744	10.833	60.371	1.00 34.70
ATOM N	679	N	VAL	A1047	19.907	14.270	58.167	1.00 29.24
ATOM C	680	CA	VAL	A1047	18.879	14.842	57.320	1.00 28.54
ATOM C	681	С	VAL	A1047	18.614	13.725	56.315	1.00 27.82
ATOM O	682	0	VAL	A1047	19.549	13.207	55.709	1.00 26.31
ATOM C	683	СВ	VAL	A1047	19.396	16.111	56.609	1.00 29.50
ATOM C	684	CG1	VAL	A1047	18.489	16.476	55.459	1.00 30.23
ATOM C	685	CG2	VAL	A1047	19.447	17.267	57.605	1.00 31.02
ATOM N	686	N	ILE	A1048	17.355	13.336	56.151	1.00 26.75
ATOM C	687	CA	ILE	A1048	17.027	12.276	55.206	1.00 27.52
ATOM C	688	С	ILE	A1048	16.263	12.860	54.034	1.00 27.06
ATOM O	689	0	ILE	A1048	15.316	13.633	54.204	1.00 25.43
ATOM C	690	СВ	ILE	A1048	16.203	11.127	55.847	1.00 29.73
ATOM C	691	CG1	ILE	A1048	14.870	11.656	56.362	1.00 31.04
ATOM C	692	CG2	ILE	A1048	17.008	10.480	56.987	1.00 31.47
ATOM C	693	CD1	ILE	A1048	13.856	10.566	56.643	1.00 32.40
ATOM N	694	N	MET	A1049	16.694	12.478	52.842	1.00 26.59
ATOM C	695	CA	MET	A1049	16.126	12.995	51.617	1.00 27.96
ATOM C	696	С	MET	A1049	15.826	11.925	50.583	1.00 27.54
ATOM O	697	0	MET	A1049	16.293	10.788	50.678	1.00 26.92
ATOM C	698	СВ	MET	A1049	17.096	14.001	50.998	1.00 31.77
ATOM C	699	CG	MET	A1049	17.301	15.262	51.820	1.00 36.77
ATOM S	700	SD	MET	A1049	18.637	16.246	51.139	1.00 44.84
ATOM C	701	CE	MET	A1049	18.102	16.428	49.440	1.00 42.11
ATOM N	702	N	GLU	A1050	15.041	12.329	49.593	1.00 25.29
ATOM C	703	CA	GLU	A1050	14.658	11.485	48.484	1.00 25.13
ATOM	704	С	GLU	A1050	15.937	10.898	47.889	1.00 24.01

GLU A1050 B GLU A1050 G GLU A1050 C GLU A1050 E1 GLU A1050 E2 GLU A1050 LEU A1051 LEU A1051 LEU A1051 B LEU A1051 G LEU A1051 C LEU A1051 D LEU A1051	16.916 11.613 13.933 12.340 13.500 11.605 12.879 12.529 12.590 12.054 12.675 13.730 15.931 9.596 17.104 8.941 17.134 9.155 16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080 18.031 5.113	47.443 46.200 45.170 44.060 45.461 47.620 47.047 45.535 44.851 47.360 46.863	1.00 22.50 1.00 24.45 1.00 25.49 1.00 25.10 1.00 24.97 1.00 26.25 1.00 24.01 1.00 23.23 1.00 22.80 1.00 22.75 1.00 24.45 1.00 22.72
G GLU A1050 C GLU A1050 E1 GLU A1050 E2 GLU A1050 LEU A1051 LEU A1051 LEU A1051 B LEU A1051 G LEU A1051 D1 LEU A1051 D2 LEU A1051	13.500 11.605 12.879 12.529 12.590 12.054 12.675 13.730 15.931 9.596 17.104 8.941 17.134 9.155 16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080	46.200 45.170 44.060 45.461 47.620 47.047 45.535 44.851 47.360 46.863	1.00 25.49 1.00 25.10 1.00 24.97 1.00 26.25 1.00 24.01 1.00 23.23 1.00 22.80 1.00 22.75 1.00 24.45
D GLU A1050 E1 GLU A1050 E2 GLU A1050 LEU A1051 LEU A1051 LEU A1051 LEU A1051 G LEU A1051 D1 LEU A1051	12.879 12.529 12.590 12.054 12.675 13.730 15.931 9.596 17.104 8.941 17.134 9.155 16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080	45.170 44.060 45.461 47.620 47.047 45.535 44.851 47.360 46.863	1.00 25.10 1.00 24.97 1.00 26.25 1.00 24.01 1.00 23.23 1.00 22.80 1.00 22.75 1.00 24.45
E1 GLU A1050 E2 GLU A1050 LEU A1051 A LEU A1051 LEU A1051 B LEU A1051 G LEU A1051 D1 LEU A1051	12.590 12.054 12.675 13.730 15.931 9.596 17.104 8.941 17.134 9.155 16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080	44.060 45.461 47.620 47.047 45.535 44.851 47.360 46.863	1.00 24.97 1.00 26.25 1.00 24.01 1.00 23.23 1.00 22.80 1.00 22.75 1.00 24.45
E2 GLU A1050 LEU A1051 A LEU A1051 LEU A1051 B LEU A1051 G LEU A1051 D1 LEU A1051	12.675 13.730 15.931 9.596 17.104 8.941 17.134 9.155 16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080	45.461 47.620 47.047 45.535 44.851 47.360 4 46.863	1.00 26.25 1.00 24.01 1.00 23.23 1.00 22.80 1.00 22.75 1.00 24.45
LEU A1051 LEU A1051 LEU A1051 LEU A1051 B LEU A1051 G LEU A1051 D1 LEU A1051	15.931 9.596 17.104 8.941 17.134 9.155 16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080	47.620 47.047 45.535 44.851 47.360 4 46.863	1.00 24.01 1.00 23.23 1.00 22.80 1.00 22.75 1.00 24.45
A LEU A1051 LEU A1051 LEU A1051 B LEU A1051 G LEU A1051 D1 LEU A1051	17.104 8.941 17.134 9.155 16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080	47.047 45.535 44.851 47.360 4 46.863	1.00 23.23 1.00 22.80 1.00 22.75 1.00 24.45
LEU A1051 LEU A1051 B LEU A1051 G LEU A1051 D1 LEU A1051 D2 LEU A1051	17.134 9.155 16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080	45.535 44.851 47.360 46.863	1.00 22.80 1.00 22.75 1.00 24.45
LEU A1051 B LEU A1051 G LEU A1051 D1 LEU A1051 D2 LEU A1051	16.146 8.928 17.079 7.437 18.263 6.594 19.544 7.080	3 44.851 7 47.360 1 46.863	1.00 22.75 1.00 24.45
B LEU A1051 G LEU A1051 D1 LEU A1051 D2 LEU A1051	17.079 7.437 18.263 6.594 19.544 7.080	47.360	1.00 24.45
G LEU A1051 D1 LEU A1051 D2 LEU A1051	18.263 6.594 19.544 7.080	46.863	
D1 LEU A1051 D2 LEU A1051	19.544 7.080		1.00 22.72
D2 LEU A1051		47.525	
	18.031 5.113		1.00 23.98
MET አ1ስ52	201002 012-0	3 47.194	1.00 23.76
MEI AIUJZ	18.277 9.598	3 45.026	1.00 23.22
A MET A1052	18.473 9.837	43.600	1.00 24.25
MET A1052	19.578 8.854	43.216	1.00 24.98
MET A1052	20.767 9.181	43.293	1.00 23.42
B MET A1052	18.935 11.285	43.372	1.00 24.55
G MET A1052	17.943 12.339	43.879	1.00 24.25
D MET A1052	16.321 12.208	3 43.092	1.00 25.17
E MET A1052	16.704 12.783	3 41.428	1.00 24.92
THR A1053	19.181 7.649	42.805	1.00 26.09
A THR A1053	20.153 6.600	42.493	1.00 27.23
THR A1053	21.257 6.900	41.480	1.00 27.85
THR A1053	22.354 6.363	3 41.606	1.00 27.93
B THR A1053	19.444 5.268	3 42.098	1.00 27.09
G1 THR A1053	18.581 5.478	3 40.974	1.00 27.57
	18.614 4.744	43.276	1.00 27.54
G2 THR A1053	20.998 7.747	7 40.489	1.00 27.94
В	THR A1053	THR A1053 19.444 5.268 1 THR A1053 18.581 5.478 2 THR A1053 18.614 4.744	THR A1053 19.444 5.268 42.098 1 THR A1053 18.581 5.478 40.974 2 THR A1053 18.614 4.744 43.276

	MO	735	CA	ARG	A1054	22.031	8.056	39.499	1.00	28.48
C AT C	MO	736	С	ARG	A1054	23.034	9.157	39.883	1.00	28.15
	MO	737	0	ARG	A1054	23.841	9.565	39.054	1.00	29.23
	MO	738	СВ	ARG	A1054	21.399	8.413	38.150	1.00	30.54
	MOY	739	CG	ARG	A1054	21.108	7.238	37.216	1.00	32.85
AT C	MO	740	CD	ARG	A1054	19.916	6.431	37.657	1.00	34.31
AT N	MO	741	NE	ARG	A1054	19.282	5.705	36.550	1.00	35.72
AT C	MO	742	CZ		A1054	19.874				37.42
N	MO	743			A1054	21.139		36.026		37.69
N	MO	744			A1054	19.185	4.144	34.865		38.81
N	MOY	745	N		A1055	22.992	9.639	41.123		27.23
С	MOY	746			A1055	23.937	10.660	41.550		25.42
С	MOY	747 748	С		A1055	23.758	12.038	40.309		25.23 23.81
0	OM	749			A1056	24.769	12.323	41.062		25.11
N	OM	750			A1056	24.684	14.246	40.510		26.01
С	OM	751			A1056	24.768	14.235	38.984		25.79
C AT	MO	752			A1056	25.349	13.323	38.378		25.35
O AT	MO	753	СВ	ASP	A1056	25.781	15.142	41.095	1.00	26.20
		754	CG	ASP	A1056	27.164	14.777	40.596	1.00	28.11
	MO	755	OD1	ASP	A1056	27.739	13.780	41.076	1.00	28.78
O AT O	'OM	756	OD2	ASP	A1056	27.675	15.491	39.712	1.00	27.37
	MO	757	N	LEU	A1057	24.180	15.255	38.371	1.00	24.59
	MO	758	CA	LEU	A1057	24.146	15.368	36.921	1.00	24.01
	MO	759	С	LEU	A1057	25.509	15.508	36.253	1.00	23.82
AT O	MO	760	0	LEU	A1057	25.694	15.035	35.132	1.00	21.71
AT C	MO	761	CB	LEU	A1057	23.259	16.544	36.500		23.32
С	MO	762	CG		A1057	23.153	16.728	34.981		22.90
С	MO	763			A1057	22.520	15.482	34.365		23.07
AT	MO	764	CD2	LEU	A1057	22.320	17.969	34.659	1.00	22.41

C ATOM N	765	N	LYS	A1058	26.459	16.154	36.920	1.00 24.23
ATOM C	766	CA	LYS	A1058	27.774	16.313	36.309	1.00 27.06
ATOM C	767	С	LYS	A1058	28.446	14.952	36.114	1.00 27.59
ATOM O	768	0	LYS	A1058	28.933	14.640	35.027	1.00 27.20
ATOM C	769	СВ	LYS	A1058	28.684	17.207	37.157	1.00 27.89
ATOM C	770	CG	LYS	A1058	30.057	17.358	36.504	1.00 29.99
ATOM C	771	CD	LYS	A1058	31.050	18.151	37.324	1.00 31.64
ATOM C	772	CE	LYS	A1058	32.395	18.185	36.591	1.00 33.30
ATOM N	773	NZ	LYS	A1058	33.455	18.894	37.355	1.00 33.01
MOTA	774	N	SER	A1059	28.469	14.149	37.174	1.00 28.77
N ATOM C	775	CA	SER	A1059	29.076	12.822	37.115	1.00 29.75
ATOM C	776	С	SER	A1059	28.340	11.948	36.111	1.00 30.79
ATOM O	777	0	SER	A1059	28.956	11.160	35.400	1.00 31.10
ATOM C	778	CB	SER	A1059	29.033	12.158	38.490	1.00 30.57
ATOM O	779	OG	SER	A1059	29.684	12.954	39.466	1.00 31.67
ATOM N	780	N	TYR	A1060	27.016	12.085	36.053	1.00 31.22
ATOM C	781	CA	TYR	A1060	26.219	11.291	35.126	1.00 31.33
ATOM C	782	C	TYR	A1060	26.567	11.632	33.678	1.00 32.61
ATOM O	783	0	TYR	A1060	26.666	10.742	32.824	1.00 32.54
ATOM C	784	СВ	TYR	A1060	24.724	11.522	35.364	1.00 30.63
ATOM C	785	CG	TYR	A1060	23.856	10.868	34.318	1.00 30.43
ATOM C	786	CD1	TYR	A1060	23.793	9.479	34.205	1.00 31.37
ATOM C	787	CD2	TYR	A1060	23.151	11.636	33.396	1.00 30.77
ATOM C	788	CE1	TYR	A1060	23.055	8.873	33.189	1.00 31.19
ATOM C	789	CE2	TYR	A1060	22.410	11.043	32.381	1.00 31.19
ATOM C	790	CZ	TYR	A1060	22.368	9.663	32.281	1.00 31.79
ATOM O	791	ОН	TYR	A1060	21.652	9.082	31.263	1.00 32.50
ATOM N	792	N	LEU	A1061	26.748	12.921	33.403	1.00 32.33
ATOM C	793	CA	LEU	A1061	27.100	13.368	32.061	1.00 32.62
MOTA	794	С	LEU	A1061	28.505	12.885	31.702	1.00 33.87

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C ATOM O	795	0	LEU	A1061	28.739	12.407	30.592	1.00	33.84
ATOM C	796	СВ	LEU	A1061	27.027	14.896	31.974	1.00	30.76
ATOM C	797	CG	LEU	A1061	25.627	15.518	32.075	1.00	30.20
ATOM C	798	CD1	LEU	A1061	25.727	17.030	32.210	1.00	31.22
ATOM C	799	CD2	LEU	A1061	24.820	15.156	30.843	1.00	29.72
ATOM N	800	N	ARG	A1062	29.438	13.007	32.642	1.00	35.64
ATOM C	801	CA	ARG	A1062	30.810	12.568	32.401	1.00	38.37
ATOM C	802	С	ARG	A1062	30.836	11.074	32.079	1.00	39.00
ATOM O	803	0	ARG	A1062	31.561	10.638	31.185	1.00	38.94
ATOM C	804	СВ	ARG	A1062	31.695	12.828	33.630	1.00	38.58
ATOM C	805	CG	ARG	A1062	31.898	14.295	33.991	1.00	41.31
ATOM C	806	CD	ARG	A1062	32.698	15.048	32.937	1.00	42.21
ATOM N	807	NE	ARG	A1062	34.030	14.483	32.727	1.00	44.06
ATOM C	808	CZ	ARG	A1062	34.970	15.045	31.968	1.00	44.58
ATOM N	809	NH1	ARG	A1062	34.727	16.192	31.343	1.00	44.28
ATOM N	810	NH2	ARG	A1062	36.156	14.464	31.835	1.00	44.18
ATOM N	811	N	SER	A1063	30.037	10.299	32.809	1.00	40.20
ATOM C	812	CA	SER	A1063	29.988	8.853	32.612	1.00	41.70
ATOM C	813	С	SER	A1063	29.549	8.474	31.202	1.00	42.85
ATOM O	814	0	SER	A1063	29.748	7.338	30.773	1.00	43.24
ATOM C	815	СВ	SER	A1063	29.040	8.202	33.627	1.00	41.52
ATOM O	816	OG	SER	A1063	27.685	8.291	33.208	1.00	41.02
ATOM N	817	N	LEU	A1064	28.952	9.416	30.482	1.00	43.80
ATOM C	818	CA	LEU	A1064	28.492	9.137	29.126	1.00	45.47
ATOM C	819	С	LEU	A1064	29.544	9.467	28.074	1.00	47.26
ATOM O	820	0	LEU	A1064	29.302	9.313	26.878	1.00	47.07
ATOM C	821	СВ	LEU	A1064	27.212	9.916	28.820	1.00	44.46
ATOM C	822	CG	LEU	A1064	26.023	9.692	29.756	1.00	43.90
ATOM C	823	CD1	LEU	A1064	24.834	10.480	29.235	1.00	43.45
ATOM	824	CD2	LEU	A1064	25.686	8.205	29.842	1.00	43.77

C ATOM	825	N	ARG	A1065	30.709	9.922	28.521	1.00 49.35
N ATOM	826	CA	ARG	A1065	31.783	10.263	27.601	1.00 52.09
C ATOM	827	С	ARG	A1065	32.370	9.016	26.949	1.00 54.17
C ATOM	828	0	ARG	A1065	32.645	8.025	27.624	1.00 53.99
O ATOM	829	СВ	ARG	A1065	32.886	11.020	28.337	1.00 52.42
C ATOM	830	CG	ARG	A1065	32.592	12.489	28.550	1.00 52.70
C ATOM	831	CD	ARG	A1065	33.639	13.120	29.442	1.00 52.80
C ATOM	832	NE	ARG	A1065	33.543	14.575	29.433	1.00 53.49
N ATOM	833	CZ	ARG	A1065	33.843	15.332	28.385	1.00 53.15
C ATOM	834	NH1	ARG	A1065	34.263	14.771	27.261	1.00 53.36
N ATOM	835	NH2	ARG	A1065	33.720	16.649	28.459	1.00 53.44
N ATOM	836	N	PRO	A1066	32.564	9.052	25.620	1.00 56.25
N ATOM	837	CA	PRO	A1066	33.124	7.925	24.867	1.00 57.98
C ATOM	838	С	PRO	A1066	34.489	7.516	25.414	1.00 59.42
C ATOM	839	0	PRO	A1066	34.835	6.333	25.436	1.00 59.72
O ATOM	840	СВ	PRO	A1066	33.214	8.474	23.446	1.00 57.80
C ATOM	841	CG	PRO	A1066	32.049	9.415	23.385	1.00 57.81
C ATOM	842	CD	PRO	A1066	32.167	10.140	24.708	1.00 56.81
C ATOM	843	N	GLU	A1067	35.260	8.505	25.854	1.00 60.85
N ATOM	844	CA	GLU	A1067	36.585	8.253	26.408	1.00 62.41
C ATOM	845	С	GLU	A1067	36.479	7.378	27.653	1.00 63.46
C ATOM	846	0	GLU	A1067	37.005	6.263	27.687	1.00 63.97
O ATOM	847	N	MET	A1068	35.794	7.890	28.671	1.00 64.16
N ATOM	848	CA	MET	A1068	35.610	7.160	29.922	1.00 64.75
C ATOM	849	С	MET	A1068	34.508	6.111	29.793	1.00 65.31
C ATOM	850	0	MET	A1068	33.320	6.423	29.900	1.00 65.66
O ATOM	851	N	PRO	A1077	23.717	11.407	24.803	1.00 50.21
N ATOM	852	CA	PRO	A1077	22.259	11.525	24.908	1.00 49.31
C ATOM	853	С	PRO	A1077	21.624	12.203	23.693	1.00 48.53
C ATOM	854	0	PRO	A1077	22.190	13.136	23.121	1.00 48.48

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O ATOM	855	СВ	PRO	A1077	22.073	12.326	26.196	1.00	49.44
C ATOM	856	CG	PRO	A1077	23.272	13.215	26.204	1.00	50.26
C ATOM	857	CD	PRO	A1077	24.386	12.271	25.793	1.00	50.38
C ATOM	858	N	SER	A1078	20.445	11.724	23.307	1.00	47.25
N ATOM C	859	CA	SER	A1078	19.729	12.262	22.156	1.00	45.97
ATOM C	860	С	SER	A1078	19.218	13.677	22.394	1.00	45.53
ATOM O	861	0	SER	A1078	19.163	14.151	23.526	1.00	45.17
ATOM C	862	CB	SER	A1078	18.541	11.362	21.807	1.00	45.85
ATOM O	863	OG	SER	A1078	17.542	11.432	22.810	1.00	44.10
ATOM N	864	N	LEU	A1079	18.840	14.344	21.309	1.00	44.74
ATOM C	865	CA	LEU	A1079	18.319	15.696	21.387	1.00	44.11
ATOM C	866	С	LEU	A1079	17.122	15.732	22.325	1.00	43.56
ATOM O	867	0	LEU	A1079	17.003	16.639	23.143	1.00	43.97
ATOM C	868	СВ	LEU	A1079	17.899	16.184	20.001	1.00	44.85
ATOM N	869	N	SER	A1080	16.237	14.746	22.202	1.00	42.66
ATOM C	870	CA	SER	A1080	15.049	14.672	23.048	1.00	42.08
ATOM C	871	С	SER	A1080	15.380	14.468	24.520	1.00	40.47
ATOM O	872	0	SER	A1080	14.743	15.063	25.391	1.00	39.95
ATOM C	873	CB	SER	A1080	14.126	13.549	22.582	1.00	42.75
ATOM O	874	OG	SER	A1080	13.350	13.976	21.480	1.00	46.12
ATOM N	875	N	LYS	A1081	16.369	13.626	24.798	1.00	38.72
ATOM C	876	CA	LYS	A1081	16.770	13.377	26.173	1.00	37.03
ATOM C	877	С	LYS	A1081	17.356	14.661	26.764	1.00	35.75
ATOM O	878	0	LYS	A1081	17.112	14.988	27.921	1.00	35.30
ATOM C	879	CB	LYS	A1081	17.803	12.248	26.233	1.00	37.18
ATOM N	880	N	MET	A1082	18.127	15.389	25.963	1.00	34.22
ATOM C	881	CA	MET	A1082	18.725	16.631	26.432	1.00	33.27
ATOM C	882	С	MET	A1082	17.668	17.688	26.718	1.00	31.88
ATOM O	883	0	MET	A1082	17.744	18.399	27.718	1.00	31.22
ATOM	884	CB	MET	A1082	19.719	17.170	25.407	1.00	32.69

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ATOM C	885	CG	MET	A1082	21.034	16.423	25.369	1.00	34.08
ATOM S	886	SD	MET	A1082	22.228	17.260	24.309	1.00	35.04
ATOM C	887	CE	MET	A1082	21.798	16.572	22.721	1.00	36.67
ATOM N	888	N	ILE	A1083	16.683	17.789	25.837	1.00	31.11
ATOM C	889	CA	ILE	A1083	15.613	18.762	26.008	1.00	31.70
ATOM C	890	С	ILE	A1083	14.739	18.386	27.199	1.00	30.87
ATOM O	891	0	ILE	A1083	14.202	19.258	27.881	1.00	29.96
ATOM C	892	CB	ILE	A1083	14.729	18.849	24.750	1.00	32.09
ATOM C	893	CG1	ILE	A1083	15.590	19.225	23.542	1.00	34.08
ATOM C	894	CG2	ILE	A1083	13.622	19.876	24.957	1.00	32.34
ATOM C	895	CD1	ILE	A1083	16.247	20.580	23.653	1.00	36.60
ATOM N	896	N	GLN	A1084	14.596	17.089	27.446	1.00	30.30
ATOM C	897	CA	GLN	A1084	13.790	16.630	28.571	1.00	30.80
ATOM C	898	С	GLN	A1084	14.474	17.074	29.866	1.00	29.31
ATOM O	899	0	GLN	A1084	13.818	17.518	30.802	1.00	28.83
ATOM C	900	СВ	GLN	A1084	13.649	15.099	28.539	1.00	30.73
ATOM C	901	CG	GLN	A1084	12.833	14.494	29.683	1.00	32.39
ATOM C	902	CD	GLN	A1084	11.361	14.892	29.653	1.00	34.29
MOTA O	903	OE1	GLN	A1084	10.754	15.003	28.586	1.00	35.55
ATOM N	904	NE2	GLN	A1084	10.777	15.090	30.831	1.00	34.50
ATOM N	905	N	MET	A1085	15.796	16.950	29.913	1.00	28.54
ATOM C	906	CA	MET	A1085	16.548	17.351	31.098	1.00	28.16
ATOM C	907	С	MET	A1085	16.433	18.851	31.319	1.00	26.68
ATOM O	908	0	MET	A1085	16.256	19.314	32.447	1.00	25.69
ATOM C	909	СВ	MET	A1085	18.020	16.971	30.957	1.00	29.48
ATOM C	910	CG	MET	A1085	18.262	15.476	30.997	1.00	31.03
ATOM S	911	SD	MET	A1085	19.989	15.097	31.283	1.00	35.66
ATOM C	912	CE	MET	A1085	20.646	15.318	29.654	1.00	34.45
ATOM N	913	N	ALA	A1086	16.531	19.605	30.231	1.00	25.68
	914	CA	ALA	A1086	16.436	21.053	30.300	1.00	25.06

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C ATOM	915	С	ALA	A1086	15.079	21.459	30.859	1.00 24.78
C ATOM	916	0	ALA	A1086	14.977	22.373	31.676	1.00 24.75
O ATOM	917	СВ	ALA	A1086	16.622	21.649	28.914	1.00 24.11
C ATOM	918	N	GLY	A1087	14.034	20.773	30.411	1.00 24.46
N ATOM	919	CA	GLY	A1087	12.695	21.098	30.865	1.00 23.43
C ATOM	920	С	GLY	A1087	12.463	20.798	32.329	1.00 22.99
C ATOM	921	0	GLY	A1087	11.788	21.559	33.024	1.00 23.28
O ATOM	922	N	GLU	A1088	13.013	19.683	32.799	1.00 22.82
N ATOM	923	CA	GLU	A1088	12.854	19.283	34.192	1.00 22.14
C ATOM	924	С	GLU	A1088	13.580	20.263	35.117	1.00 22.13
C ATOM	925	0	GLU	A1088	13.031	20.686	36.136	1.00 20.88
O ATOM	926	СВ	GLU	A1088	13.375	17.855	34.375	1.00 22.81
C ATOM	927	CG	GLU	A1088	12.690	16.850	33.435	1.00 25.10
C ATOM	928	CD	GLU	A1088	13.232	15.434	33.559	1.00 26.12
C ATOM	929	OE1	GLU	A1088	14.452	15.277	33.769	1.00 25.99
O ATOM	930	OE2	GLU	A1088	12.438	14.476	33.424	1.00 25.70
O ATOM	931	N	ILE	A1089	14.806	20.627	34.753	1.00 20.22
N ATOM	932	CA	ILE	A1089	15.599	21.563	35.546	1.00 20.98
C ATOM C	933	С	ILE	A1089	14.917	22.927	35.600	1.00 21.22
ATOM O	934	0	ILE	A1089	14.838	23.554	36.663	1.00 22.10
ATOM	935	СВ	ILE	A1089	17.016	21.754	34.940	1.00 20.69
ATOM C	936	CG1	ILE	A1089	17.795	20.433	35.011	1.00 20.64
ATOM C	937	CG2	ILE	A1089	17.749	22.866	35.681	1.00 18.72
ATOM C	938	CD1	ILE	A1089	19.100	20.431	34.215	1.00 19.57
ATOM N	939	N	ALA	A1090	14.429	23.377	34.447	1.00 19.87
ATOM C	940	CA	ALA	A1090	13.747	24.663	34.344	1.00 20.24
ATOM C	941	С	ALA	A1090	12.449	24.646	35.152	1.00 19.68
ATOM O	942	0	ALA	A1090	12.062	25.660	35.728	1.00 20.08
ATOM C	943	СВ	ALA	A1090	13.452	24.989	32.875	1.00 19.78
MOTA	944	N	ASP	A1091	11.781	23.497	35.200	1.00 20.03

N ATOM C	945	CA	ASP	A1091	10.535	23.396	35.961	1.00 20.16
ATOM C	946	С	ASP	A1091	10.836	23.518	37.457	1.00 19.57
ATOM O	947	0	ASP	A1091	10.134	24.215	38.186	1.00 19.64
ATOM C	948	СВ	ASP	A1091	9.822	22.066	35.680	1.00 18.81
ATOM C	949	CG	ASP	A1091	8.399	22.041	36.231	1.00 21.37
ATOM O	950	OD1	ASP	A1091	7.581	22.884	35.807	1.00 21.94
ATOM O	951	OD2	ASP	A1091	8.094	21.189	37.091	1.00 22.30
ATOM N	952	N	GLY	A1092	11.884	22.838	37.913	1.00 18.41
ATOM C	953	CA	GLY	A1092	12.243	22.920	39.317	1.00 17.43
ATOM C	954	С	GLY	A1092	12.625	24.346	39.673	1.00 17.88
ATOM O	955	0	GLY	A1092	12.257	24.853	40.740	1.00 17.91
ATOM N	956	N	MET	A1093	13.360	25.002	38.778	1.00 17.50
ATOM C	957	CA	MET	A1093	13.785	26.379	39.008	1.00 18.03
ATOM C	958	С	MET	A1093	12.584	27.318	38.968	1.00 19.25
ATOM O	959	0	MET	A1093	12.497	28.251	39.762	1.00 20.32
ATOM C	960	CB	MET	A1093	14.820	26.800	37.967	1.00 17.76
ATOM C	961	CG	MET	A1093	16.170	26.087	38.113	1.00 19.10
ATOM S	962	SD	MET	A1093	16.909	26.353	39.738	1.00 20.39
ATOM C	963	CE	MET	A1093	17.132	28.154	39.709	1.00 21.07
ATOM N	964	N	ALA	A1094	11.654	27.074	38.048	1.00 19.76
ATOM C	965	CA	ALA	A1094	10.456	27.909	37.969	1.00 20.51
ATOM C	966	С	ALA	A1094	9.725	27.831	39.311	1.00 21.07
ATOM O	967	0	ALA	A1094	9.256	28.844	39.834	1.00 21.81
ATOM C	968	CB	ALA	A1094	9.548	27.424	36.840	1.00 19.84
ATOM N	969	N	TYR	A1095	9.639	26.622	39.865	1.00 21.19
ATOM C	970	CA	TYR	A1095	8.986	26.402	41.154	1.00 21.83
ATOM C	971	С	TYR	A1095	9.698	27.224	42.229	1.00 23.46
ATOM O	972	0	TYR	A1095	9.068	27.957	43.002	1.00 22.56
ATOM C	973	СВ	TYR	A1095	9.035	24.913	41.534	1.00 21.54
ATOM	974	CG	TYR	A1095	8.518	24.628	42.934	1.00 22.93

C ATOM	975	CD1	TYR	A1095	7.149	24.607	43.207	1.00 23.33
C ATOM	976	CD2	TYR	A1095	9.400	24.436	43.996	1.00 23.82
C ATOM	977	CE1	TYR	A1095	6.672	24.405	44.505	1.00 23.48
C ATOM	978	CE2	TYR	A1095	8.934	24.232	45.301	1.00 24.47
C ATOM	979	CZ	TYR	A1095	7.568	24.219	45.544	1.00 24.72
C ATOM	980	ОH	TYR	A1095	7.107	24.015	46.827	1.00 25.67
O ATOM	981	N	LEU	A1096	11.019	27.093	42.272	1.00 23.30
N ATOM	982	CA	LEU	A1096	11.829	27.823	43.236	1.00 24.83
C ATOM	983	С	LEU	A1096	11.595	29.332	43.129	1.00 24.52
C ATOM	984	0	LEU	A1096	11.273	29.988	44.120	1.00 24.89
O ATOM	985	СВ	LEU	A1096	13.311	27.507	43.011	1.00 24.65
C ATOM	986	CG	LEU	A1096	14.014	26.598	44.021	1.00 27.42
C ATOM	987	CD1	LEU	A1096	13.142	25.417	44.390	1.00 27.26
C ATOM	988	CD2	LEU	A1096	15.342	26.142	43.434	1.00 27.69
C ATOM	989	N	ASN	A1097	11.754	29.877	41.926	1.00 25.01
N ATOM	990	CA	ASN	A1097	11.564	31.310	41.700	1.00 25.09
C ATOM	991	С	ASN	A1097	10.128	31.760	42.022	1.00 26.02
C ATOM	992	0	ASN	A1097	9.914	32.864	42.532	1.00 25.13
O ATOM	993	СВ	ASN	A1097	11.913	31.675	40.243	1.00 24.95
C ATOM	994	CG	ASN	A1097	13.427	31.694	39.970	1.00 26.01
C ATOM	995	OD1	ASN	A1097	13.856	31.926	38.839	1.00 24.41
O MOTA	996	ND2	ASN	A1097	14.232	31.458	41.004	1.00 23.19
N ATOM	997	N	ALA	A1098	9.152	30.904	41.727	1.00 26.74
N ATOM	998	CA	ALA	A1098	7.750	31.223	41.991	1.00 27.75
C ATOM	999	С	ALA	A1098	7.509	31.376	43.492	1.00 29.50
C ATOM	1000	0	ALA	A1098	6.645	32.142	43.919	1.00 29.69
O MOTA	1001	СВ	ALA	A1098	6.851	30.144	41.427	1.00 26.95
C ATOM	1002	N	ASN	A1099	8.271	30.644	44.294	1.00 30.13
N ATOM	1003	CA	ASN	A1099	8.129	30.748	45.736	1.00 30.23
C ATOM	1004	С	A CM	A1099	9.059	31.808	46.312	1.00 29.27

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C ATOM O	1005	0	ASN	A1099	9.296	31.857	47.518	1.00	28.65
ATOM C	1006	СВ	ASN	A1099	8.377	29.397	46.397	1.00	32.56
ATOM C	1007	CG	ASN	A1099	7.246	28.418	46.144	1.00	34.58
MOTA O	1008	OD1	ASN	A1099	7.170	27.783	45.086	1.00	34.70
MOTA	1009	ND2	ASN	A1099	6.343	28.310	47.109	1.00	35.43
N ATOM	1010	N	LYS	A1100	9.584	32.657	45.437	1.00	29.47
N ATOM	1011	CA	LYS	A1100	10.465	33.743	45.849	1.00	29.75
C ATOM	1012	С	LYS	A1100	11.808	33.318	46.435	1.00	29.10
C ATOM	1013	0	LYS	A1100	12.260	33.857	47.450	1.00	28.76
O ATOM C	1014	СВ	LYS	A1100	9.728	34.660	46.836	1.00	32.12
MOTA	1015	CG	LYS	A1100	8.564	35.413	46.203	1.00	34.99
C ATOM C	1016	CD	LYS	A1100	9.064	36.316	45.079	1.00	36.91
MOTA	1017	CE	LYS	A1100	7.919	37.041	44.378	1.00	40.08
C ATOM	1018	NZ	LYS	A1100	8.427	37.966	43.318	1.00	41.72
N ATOM	1019	N	PHE	A1101	12.443	32.346	45.792	1.00	27.72
N ATOM C	1020	CA	PHE	A1101	13.756	31.888	46.220	1.00	26.30
ATOM C	1021	С	PHE	A1101	14.692	31.990	45.028	1.00	25.67
ATOM O	1022	0	PHE	A1101	14.314	31.655	43.903	1.00	25.05
ATOM C	1023	СВ	PHE	A1101	13.711	30.426	46.686	1.00	27.38
ATOM C	1024	CG	PHE	A1101	13.132	30.237	48.060	1.00	28.93
ATOM C	1025	CD1	PHE	A1101	13.920	30.418	49.191	1.00	28.95
ATOM C	1026	CD2	PHE	A1101	11.795	29.883	48.223	1.00	29.91
ATOM C	1027	CE1	PHE	A1101	13.388	30.248	50.472	1.00	29.44
ATOM C	1028	CE2	PHE	A1101	11.250	29.712	49.501	1.00	31.10
ATOM C	1029	CZ	PHE	A1101	12.055	29.896	50.627	1.00	29.58
ATOM N	1030	N	VAL	A1102	15.906	32.464	45.267	1.00	23.89
ATOM C	1031	CA	VAL	A1102	16.892	32.526	44.205	1.00	22.46
ATOM C	1032	С	VAL	A1102	17.889	31.440	44.601	1.00	22.33
ATOM O	1033	0	VAL	A1102	18.403	31.437	45.725	1.00	20.73
ATOM	1034	СВ	VAL	A1102	17.568	33.918	44.118	1.00	22.76

C ATOM	1035	CG1	VAL	A1102	18.166	34.316	45.463	1.00	22.31
C ATOM C	1036	CG2	VAL	A1102	18.621	33.904	43.031	1.00	23.77
ATOM N	1037	N	HIS	A1103	18.151	30.512	43.685	1.00	20.22
ATOM C	1038	CA	HIS	A1103	19.051	29.404	43.976	1.00	20.83
ATOM C	1039	С	HIS	A1103	20.514	29.825	44.153	1.00	20.79
ATOM	1040	0	HIS	A1103	21.160	29.427	45.121	1.00	21.47
O ATOM	1041	СВ	HIS	A1103	18.908	28.340	42.889	1.00	20.83
C ATOM	1042	CG	HIS	A1103	19.588	27.049	43.222	1.00	21.83
C ATOM	1043	ND1	HIS	A1103	20.956	26.895	43.175	1.00	22.48
N ATOM	1044	CD2	HIS	A1103	19.086	25.856	43.618	1.00	22.08
C ATOM	1045	CE1	HIS	A1103	21.270	25.658	43.525	1.00	21.60
C ATOM	1046	NE2	HIS	A1103	20.153	25.008	43.800	1.00	21.83
N ATOM	1047	N	ARG	A1104	21.024	30.627	43.220	1.00	21.21
N ATOM C	1048	CA	ARG	A1104	22.392	31.154	43.262	1.00	21.05
MOTA	1049	С	ARG	A1104	23.539	30.191	42.966	1.00	20.65
C ATOM	1050	0	ARG	A1104	24.678	30.627	42.802	1.00	20.84
O ATOM C	1051	СВ	ARG	A1104	22.659	31.825	44.621	1.00	21.75
ATOM C	1052	CG	ARG	A1104	21.754	33.017	44.925	1.00	24.07
ATOM C	1053	CD	ARG	A1104	22.111	33.642	46.266	1.00	24.62
ATOM N	1054	NE	ARG	A1104	23.485	34.123	46.265	1.00	24.77
ATOM C	1055	CZ	ARG	A1104	24.370	33.886	47.229	1.00	25.33
ATOM N	1056	NH1	ARG	A1104	24.034	33.167	48.294	1.00	26.22
ATOM N	1057	NH2	ARG	A1104	25.599	34.363	47.118	1.00	24.33
ATOM N	1058	N	ASP	A1105	23.267	28.893	42.895	1.00	19.35
ATOM C	1059	CA	ASP	A1105	24.346	27.951	42.632	1.00	19.45
ATOM C	1060	С	ASP	A1105	23.889	26.840	41.697	1.00	20.19
ATOM O	1061	0	ASP	A1105	24.210	25.667	41.893	1.00	19.31
ATOM C	1062	CB	ASP	A1105	24.869	27.382	43.964	1.00	20.07
ATOM C	1063	ÇG	ASP	A1105	26.205	26.643	43.817	1.00	20.66
ATOM	1064	OD1	ASP	A1105	26.875	26.796	42.775	1.00	20.03

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O ATOM	1065	OD2	ASP	A1105	26.594	25.919	44.757	1.00 20.30
O ATOM	1066	N	LEU	A1106	23.135	27.222	40.668	1.00 19.82
N ATOM C	1067	CA	LEU	A1106	22.657	26.254	39.692	1.00 19.39
ATOM C	1068	С	LEU	A1106	23.838	25.815	38.830	1.00 18.29
ATOM O	1069	0	LEU	A1106	24.543	26.639	38.250	1.00 17.57
ATOM C	1070	CB	LEU	A1106	21.555	26.860	38.819	1.00 18.64
ATOM C	1071	CG	LEU	A1106	21.020	25.979	37.684	1.00 20.68
ATOM C	1072	CD1	LEU	A1106	20.622	24.607	38.216	1.00 21.87
ATOM C	1073	CD2	LEU	A1106	19.828	26.670	37.032	1.00 20.55
ATOM N	1074	N	ALA	A1107	24.037	24.506	38.761	1.00 17.03
ATOM C	1075	CA	ALA	A1107	25.139	23.908	38.011	1.00 18.44
ATOM C	1076	С	ALA	A1107	24.837	22.426	37.939	1.00 19.60
ATOM O	1077	0	ALA	A1107	24.084	21.911	38.763	1.00 20.20
ATOM C	1078	СВ	ALA	A1107	26.462	24.125	38.753	1.00 16.52
ATOM N	1079	N	ALA	A1108	25.418	21.736	36.964	1.00 20.79
ATOM C	1080	CA	ALA	A1108	25.172	20.309	36.833	1.00 20.95
ATOM C	1081	С	ALA	A1108	25.508	19.567	38.130	1.00 21.25
ATOM O	1082	0	ALA	A1108	24.810	18.626	38.509	1.00 22.28
ATOM C	1083	СВ	ALA	A1108	25.975	19.741	35.672	1.00 20.34
ATOM N	1084	N	ARG	A1109	26.566	19.988	38.816	1.00 21.09
ATOM C	1085	CA	ARG	A1109	26.962	19.324	40.055	1.00 21.19
ATOM C	1086	С	ARG	A1109	25.883	19.413	41.135	1.00 21.92
ATOM O	1087	0	ARG	A1109	25.891	18.629	42.086	1.00 21.98
ATOM C	1088	СВ	ARG	A1109	28.263	19.929	40.599	1.00 22.23
ATOM C	1089	CG	ARG	A1109	28.138	21.407	40.964	1.00 20.07
ATOM C	1090	CD	ARG	A1109	29.361	21.943	41.695	1.00 18.83
ATOM N	1091	NE	ARG	A1109	29.197	23.382	41.899	1.00 19.11
ATOM C	1092	CZ	ARG	A1109	29.396	24.290	40.951	1.00 19.03
ATOM N	1093	NH1	ARG	A1109	29.788	23.904	39.741	1.00 16.64
ATOM	1094	NH2	ARG	A1109	29.159	25.576	41.198	1.00 17.41

N ATOM N	1095	N	ASN	A1110	24.954	20.356	40.995	1.00 21.57
ATOM C	1096	CA	ASN	A1110	23.917	20.519	42.005	1.00 21.89
ATOM C	1097	С	ASN	A1110	22.544	19.968	41.644	1.00 22.65
ATOM O	1098	0	ASN	A1110	21.580	20.138	42.396	1.00 22.59
ATOM C	1099	CB	ASN	A1110	23.836	21.994	42.433	1.00 21.22
ATOM C	1100	CG	ASN	A1110	25.051	22.416	43.249	1.00 21.91
ATOM O	1101	OD1	ASN	A1110	25.549	21.640	44.054	1.00 20.62
ATOM N	1102	ND2	ASN	A1110	25.528	23.644	43.049	1.00 21.03
MOTA	1103	N	CYS	A1111	22.468	19.306	40.492	1.00 22.41
N ATOM C	1104	CA	CYS	A1111	21.242	18.664	40.035	1.00 22.34
ATOM C	1105	С	CYS	A1111	21.507	17.180	40.255	1.00 22.82
ATOM O	1106	0	CYS	A1111	22.661	16.761	40.207	1.00 21.48
ATOM C	1107	СВ	CYS	A1111	21.005	18.927	38.546	1.00 22.08
ATOM S	1108	SG	CYS	A1111	20.684	20.664	38.138	1.00 22.48
ATOM N	1109	N	MET	A1112	20.454	16.399	40.498	1.00 23.07
ATOM C	1110	CA	MET	A1112	20.586	14.957	40.731	1.00 23.64
ATOM C	1111	С	MET	A1112	19.743	14.184	39.720	1.00 23.87
ATOM O	1112	0	MET	A1112	18.804	14.729	39.139	1.00 22.59
ATOM C	1113	СВ	MET	A1112	20.123	14.591	42.144	1.00 24.75
ATOM C	1114	CG	MET	A1112	20.901	15.234	43.287	1.00 28.40
ATOM S	1115	SD	MET	A1112	22.628	14.708	43.397	1.00 33.90
ATOM C	1116	CE	MET	A1112	22.449	13.151	44.242	1.00 32.77
ATOM N	1117	N	VAL	A1113	20.077	12.912	39.519	1.00 23.78
ATOM C	1118	CA	VAL	A1113	19.355	12.072	38.567	1.00 24.23
ATOM C	1119	С	VAL	A1113	18.743	10.855	39.263	1.00 24.40
ATOM O	1120	0	VAL	A1113	19.441	10.088	39.929	1.00 23.04
ATOM C	1121	СВ	VAL	A1113	20.299	11.607	37.433	1.00 25.15
ATOM C	1122	CG1	VAL	A1113	19.536	10.785	36.407	1.00 25.83
ATOM C	1123	CG2	VAL	A1113	20.935	12.826	36.770	1.00 25.48
ATOM	1124	N	ALA	A1114	17.434	10.692	39.100	1.00 24.74

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	МОЛ	1125	CA	ALA	A1114	16.706	9.591	39.712	1.00	25.51
	МОЛ	1126	С	ALA	A1114	16.862	8.308	38.904	1.00	26.94
ΑΊ	МОЛ	1127	0	ALA	A1114	17.408	8.319	37.794	1.00	27.03
	MOT	1128	СВ	ALA	A1114	15.222	9.955	39.837	1.00	24.11
	MOT	1129	N	GLU	A1115	16.380	7.200	39.463	1.00	28.23
	MOT	1130	CA	GLU	A1115	16.470	5.913	38.780	1.00	29.39
C Al C	MOT	1131	С	GLU	A1115	15.940	6.005	37.351	1.00	29.85
ΑΊ	MOT	1132	0	GLU	A1115	16.603	5.570	36.410	1.00	31.27
O Al C	MOT	1133	СВ	GLU	A1115	15.689	4.835	39.543	1.00	29.73
	MOT	1134	CG	GLU	A1115	15.680	3.486	38.832	1.00	31.53
	MOT	1135	CD	GLU	A1115	17.054	2.834	38.781	1.00	32.47
	MOT	1136	OE1	GLU	A1115	17.287	2.009	37.867	1.00	33.75
	MOT	1137	OE2	GLU	A1115	17.895	3.131	39.659	1.00	32.29
	MOT	1138	N	ASP	A1116	14.750	6.574	37.188	1.00	30.26
	MOT	1139	CA	ASP	A1116	14.154	6.696	35.864	1.00	31.33
	MOT	1140	С	ASP	A1116	14.726	7.838	35.024	1.00	31.31
	MOT	1141	0	ASP	A1116	14.110	8.253	34.044	1.00	31.61
	MOT	1142	СВ	ASP	A1116	12.630	6.847	35.975	1.00	32.10
	MOT	1143	CG	ASP	A1116	12.207	8.149	36.636	1.00	33.78
	MOT	1144	OD1	ASP	A1116	13.086	8.976	36.964	1.00	34.04
	MO	1145	OD2	ASP	A1116	10.985	8.344	36.827	1.00	33.69
	MO	1146	N	PHE	A1117	15.898	8.338	35.415	1.00	31.74
	MOT	1147	CA	PHE	A1117	16.586	9.423	34.703	1.00	30.88
	MOT	1148	С	PHE	A1117	16.012	10.830	34.848	1.00	29.97
	MO	1149	0	PHE	A1117	16.469	11.765	34.183	1.00	30.59
	MO	1150	СВ	PHE	A1117	16.713	9.073	33.218	1.00	31.73
	MO	1151	CG	PHE	A1117	17.608	7.900	32.961	1.00	32.33
	MOT	1152	CD1	PHE	A1117	18.981	8.009	33.143	1.00	32.68
	MO	1153	CD2	PHE	A1117	17.076	6.676	32.577	1.00	33.60
	MO	1154	CE1	PHE	A1117	19.816	6.915	32.949	1.00	33.11

C ATOM C	1155	CE2	PHE	A1117	17.901	5.571	32.380	1.00 33.23
ATOM C	1156	CZ	PHE	A1117	19.276	5.694	32.566	1.00 33.90
ATOM N	1157	N	THR	A1118	15.016	10.990	35.707	1.00 28.01
ATOM C	1158	CA	THR	A1118	14.442	12.313	35.929	1.00 26.47
ATOM C	1159	С	THR	A1118	15.514	13.188	36.602	1.00 25.65
ATOM O	1160	0	THR	A1118	16.201	12.741	37.520	1.00 24.72
ATOM C	1161	CB	THR	A1118	13.218	12.243	36.860	1.00 26.29
ATOM O	1162	OG1	THR	A1118	12.186	11.460	36.242	1.00 26.39
ATOM C	1163	CG2	THR	A1118	12.690	13.643	37.150	1.00 24.34
ATOM N	1164	N	VAL	A1119	15.657	14.429	36.148	1.00 24.72
ATOM C	1165	CA	VAL	A1119	16.645	15.337	36.734	1.00 24.06
ATOM C	1166	С	VAL	A1119	15.931	16.268	37.717	1.00 23.41
ATOM O	1167	0	VAL	A1119	14.821	16.723	37.447	1.00 23.73
ATOM C	1168	СВ	VAL	A1119	17.352	16.190	35.644	1.00 24.07
ATOM C	1169	CG1	VAL	A1119	18.417	17.080	36.287	1.00 24.18
ATOM C	1170	CG2	VAL	A1119	17.998	15.273	34.597	1.00 24.82
ATOM N	1171	N	LYS	A1120	16.563	16.544	38.854	1.00 23.15
ATOM C	1172	CA	LYS	A1120	15.971	17.419	39.867	1.00 23.75
ATOM C	1173	С	LYS	A1120	17.011	18.320	40.526	1.00 24.39
ATOM O	1174	0	LYS	A1120	18.186	17.944	40.643	1.00 24.12
ATOM C	1175	СВ	LYS	A1120	15.286	16.588	40.962	1.00 23.59
ATOM C	1176	CG	LYS	A1120	14.268	15.572	40.450	1.00 23.89
ATOM C	1177	CD	LYS	A1120	13.539	14.890	41.598	1.00 24.50
ATOM C	1178	CE	LYS	A1120	12.626	13.796	41.063	1.00 25.14
ATOM N	1179	NZ	LYS	A1120	11.696	13.274	42.092	1.00 24.84
ATOM N	1180	N	ILE	A1121	16.571	19.505	40.954	1.00 23.48
ATOM C	1181	CA	ILE	A1121	17.439	20.462	41.641	1.00 25.09
ATOM C	1182	С	ILE	A1121	17.710	19.841	43.013	1.00 25.54
ATOM O	1183	0	ILE	A1121	16.764	19.509	43.730	1.00 24.51
U				A1121	16.721	21.813	41.834	1.00 24.80

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	ATOM C	1185	CG1	ILE	A1121	16.148	22.289	40.495	1.00	24.18
	ATOM	1186	CG2	ILE	A1121	17.680	22.829	42.438	1.00	26.21
	C ATOM	1187	CD1	ILE	A1121	17.146	22.305	39.342	1.00	24.02
	C ATOM	1188	N	GLY	A1122	18.977	19.690	43.391	1.00	26.26
	N ATOM	1189	CA	GLY	A1122	19.251	19.027	44.658	1.00	29.63
	C ATOM	1190	С	GLY	A1122	20.141	19.584	45.758	1.00	32.10
	C ATOM	1191	0	GLY	A1122	20.239	18.955	46.823	1.00	35.77
	O ATOM	1192	N	ASP	A1123	20.803	20.715	45.535	1.00	30.67
	N ATOM	1193	CA	ASP	A1123	21.655	21.300	46.571	1.00	30.46
	C ATOM	1194	С	ASP	A1123	21.189	22.744	46.729	1.00	29.67
	C ATOM	1195	0	ASP	A1123	21.030	23.444	45.737	1.00	31.35
	O ATOM	1196	СВ	ASP	A1123	23.132	21.273	46.150	1.00	31.20
	C ATOM	1197	CG	ASP	A1123	24.077	21.614	47.302	1.00	33.97
	C ATOM	1198	OD1	ASP	A1123	24.497	20.680	48.027	1.00	36.06
	O ATOM	1199	OD2	ASP	A1123	24.391	22.811	47.498	1.00	32.13
	O ATOM	1200	N	PHE	A1124	20.969	23.188	47.962	1.00	28.63
	N ATOM	1201	CA	PHE	A1124	20.489	24.549	48.198	1.00	28.36
	C ATOM	1202	C ·	PHE	A1124	21.369	25.328	49.161	1.00	27.22
	C ATOM	1203	0	PHE	A1124	20.891	26.202	49.880	1.00	26.52
	O ATOM	1204	СВ	PHE	A1124	19.056	24.486	48.728	1.00	29.29
	C ATOM	1205	CG	PHE	A1124	18.145	23.676	47.857	1.00	30.50
	C ATOM	1206	CD1	PHE	A1124	17.588	24.229	46.707	1.00	31.13
	C ATOM	1207	CD2	PHE	A1124	17.914	22.334	48.135	1.00	30.08
	C ATOM	1208	CE1	PHE	A1124	16.815	23.449	45.843	1.00	30.62
	C ATOM	1209	CE2	PHE	A1124	17.148	21.550	47.279	1.00	30.60
	C ATOM	1210	CZ	PHE	A1124	16.599	22.107	46.133	1.00	29.59
	C ATOM	1211	N	GLY	A1125	22.658	25.010	49.158	1.00	26.48
	N ATOM	1212	CA	GLY	A1125	23.588	25.671	50.053	1.00	27.04
•	C ATOM	1213	С	GLY	A1125	23.627	27.184	49.958	1.00	27.00
	C ATOM	1214	0	GLY	A1125	23.889	27.844	50.956	1.00	28.24

O ATOM	1215	N	MET	A1126	23.360	27.742	48.779	1.00	26.36
N ATOM	1216	CA	MET	A1126	23.404	29.194	48.605	1.00	26.38
C ATOM	1217	С	MET	A1126	22.044	29.839	48.351	1.00	26.17
C ATOM	1218	0	MET	A1126	21.961	31.047	48.120	1.00	25.93
O ATOM	1219	СВ	MET	A1126	24.362	29.544	47.457	1.00	26.71
C ATOM	1220	CG	MET	A1126	25.823	29.224	47.750	1.00	26.48
C ATOM	1221	SD	MET	A1126	26.935	29.516	46.352	1.00	25.11
S ATOM	1222	CE	MET	A1126	26.534	31.258	45.914	1.00	27.70
C ATOM	1223	N	THR	A1127	20.987	29.035	48.395	1.00	25.44
N ATOM	1224	CA	THR	A1127	19.628	29.519	48.155	1.00	25.77
C ATOM	1225	С	THR	A1127	19.203	30.585	49.160	1.00	26.86
C ATOM	1226	0	THR	A1127	19.430	30.448	50.365	1.00	26.41
O ATOM	1227	СВ	THR	A1127	18.616	28.350	48.196	1.00	24.49
C ATOM	1228	OG1	THR	A1127	18.958	27.390	47.187	1.00	23.51
O ATOM	1229	CG2	THR	A1127	17.197	28.851	47.949	1.00	24.91
C ATOM	1230	N	ARG	A1128	18.578	31.647	48.656	1.00	27.56
N ATOM	1231	CA	ARG	A1128	18.131	32.748	49.497	1.00	29.70
C ATOM	1232	С	ARG	A1128	16.701	33.194	49.211	1.00	30.71
C ATOM	1233	0	ARG	A1128	16.251	33.224	48.067	1.00	28.23
O ATOM	1234	СВ	ARG	A1128	19.056	33.956	49.317	1.00	30.44
C ATOM	1235	CG	ARG	A1128	20.480	33.733	49.775	1.00	31.81
C ATOM	1236	CD	ARG	A1128	20.565	33.720	51.297	1.00	34.73
C ATOM	1237	NE	ARG	A1128	21.938	33.543	51.759	1.00	35.75
N ATOM	1238	CZ	ARG	A1128	22.593	32.389	51.733	1.00	37.51
C ATOM N	1239	NH1	ARG	A1128	21.999	31.297	51.273	1.00	37.95
MOTA	1240	NH2	ARG	A1128	23.849	32.329	52.156	1.00	38.13
N ATOM	1241	N	ASP	A1129	15.993	33.549	50.272	1.00	32.00
N ATOM C	1242	CA	ASP	A1129	14.629	34.028	50.142	1.00	34.71
ATOM C	1243	С	ASP	A1129	14.685	35.470	49.626	1.00	34.74
ATOM	1244	0	ASP	A1129	15.422	36.291	50.162	1.00	34.82

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ATOM C	1245	СВ	ASP	A1129	13.942	33.950	51.508	1.00	36.26
MOTA	1246	CG	ASP	A1129	12.658	34.733	51.559	1.00	38.18
C ATOM	1247	OD1	ASP	A1129	11.850	34.629	50.613	1.00	38.45
O ATOM	1248	OD2	ASP	A1129	12.458	35.449	52.560	1.00	40.73
O ATOM	1249	N	ILE	A1130	13.921	35.772	48.579	1.00	35.41
N ATOM	1250	CA	ILE	A1130	13.897	37.122	48.006	1.00	36.11
C ATOM	1251	С	ILE	A1130	12.477	37.691	47.982	1.00	37.60
C ATOM	1252	0	ILE	A1130	12.165	38.588	47.196	1.00	37.46
O ATOM	1253	СВ	ILE	A1130	14.440	37.139	46.555	1.00	35.24
C ATOM	1254	CG1	ILE	A1130	13.631	36.170	45.687	1.00	34.42
C ATOM	1255	CG2	ILE	A1130	15.921	36.788	46.546	1.00	34.41
C ATOM	1256	CD1	ILE	A1130	13.893	36.295	44.191	1.00	33.92
C HETATM	1257	N	PTR	A1131	11.623	37.159	48.845	1.00	39.53
N HETATM	1258	CA	PTR	A1131	10.237	37.596	48.927	1.00	42.03
C HETATM	1259	С	PTR	A1131	10.094	39.112	49.040	1.00	42.46
C HETATM	1260	0	PTR	A1131	9.355	39.738	48.278	1.00	41.84
O HETATM	1261	СВ	PTR	A1131	9.567	36.929	50.130	1.00	45.24
C HETATM	1262	CG	PTR	A1131	8.171	37.424	50.425	1.00	49.18
C HETATM	1263	CD1	PTR	A1131	7.139	37.257	49.503	1.00	51.15
C HETATM	1264	CD2	PTR	A1131	7.879	38.051	51.637	1.00	50.90
C HETATM	1265	CE1	PTR	A1131	5.846	37.702	49.781	1.00	53.14
	1266	CE2	PTR	A1131	6.593	38.497	51.925	1.00	53.22
C HETATM	1267	CZ	PTR	A1131	5.581	38.320	50.996	1.00	54.72
C HETATM	1268	ОН	PTR	A1131	4.311	38.762	51.305	1.00	58.56
O HETATM	1269	P	PTR	A1131	2.960	38.800	50.371	1.00	61.12
P HETATM	1270	01P	PTR	A1131	3.314	39.751	49.278	1.00	60.54
O HETATM	1271	02P	PTR	A1131	1.955	39.295	51.345	1.00	60.74
O HETATM	1272	03 P	PTR	A1131	2.773	37.387	49.932	1.00	60.89
O ATOM	1273	N	GLU	A1132	10.808	39.697	49.992	1.00	42.33
N ATOM	1274	CA	GLU	A1132	10.731	41.131	50.225	1.00	43.58

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C ATOM	1275	С	GLU	A1132	11.323	42.044	49.150	1.00	43.59
C ATOM	1276	0	GLU	A1132	10.659	42.977	48.701	1.00	44.46
O ATOM	1277	СВ	GLU	A1132	11.374	41.468	51.576	1.00	43.91
C ATOM	1278	N	THR	A1133	12.558	41.780	48.731	1.00	42.98
N ATOM	1279	CA	THR	A1133	13.220	42.647	47.760	1.00	42.14
C ATOM	1280	С	THR	A1133	13.437	42.143	46.334	1.00	41.86
C ATOM	1281	0	THR	A1133	13.878	42.907	45.480	1.00	41.49
O ATOM	1282	СВ	THR	A1133	14.594	43.084	48.291	1.00	42.52
C ATOM	1283	OG1	THR	A1133	15.448	41.938	48.389	1.00	42.13
O ATOM	1284	CG2	THR	A1133	14.457	43.718	49.668	1.00	42.30
C ATOM	1285	N	ASP	A1134	13.143	40.874	46.070	1.00	41.46
N ATOM	1286	CA	ASP	A1134	13.336	40.322	44.730	1.00	41.09
C ATOM	1287	С	ASP	A1134	14.797	40.169	44.323	1.00	40.14
C ATOM	1288	0	ASP	A1134	15.094	39.918	43.153	1.00	38.86
O ATOM C	1289	СВ	ASP	A1134	12.627	41.181	43.681	1.00	42.10
C ATOM C	1290	CG	ASP	A1134	11.215	40.717	43.405	1.00	42.65
ATOM O	1291	OD1	ASP	A1134	10.504	41.418	42.657	1.00	43.77
ATOM O	1292	OD2	ASP	A1134	10.820	39.651	43.927	1.00	44.33
HETATM N	1293	N	PTR	A1135	15.711	40.325	45.272	1.00	39.19
HETATM C	1294	CA	PTR	A1135	17.123	40.169	44.959	1.00	39.21
HETATM	1295	С	PTR	A1135	17.918	39.888	46.214	1.00	39.09
HETATM	1296	0	PTR	A1135	17.431	40.089	47.327	1.00	37.71
HETATM	1297	СВ	PTR	A1135	17.671	41.423	44.256	1.00	40.73
C HETATM C	1298	CG	PTR	A1135	17.998	42.595	45.169	1.00	42.86
HETATM	1299	CD1	PTR	A1135	19.220	42.665	45.839	1.00	43.96
HETATM	1300	CD2	PTR	A1135	17.085	43.631	45.361	1.00	44.31
HETATM	1301	CE1	PTR	A1135	19.527	43.742	46.680	1.00	45.50
HETATM C	1302	CE2	PTR	A1135	17.379	44.711	46.199	1.00	45.17
HETATM	1303	CZ	PTR	A1135	18.600	44.760	46.855	1.00	45.89
HETATM	1304	ОН	PTR	A1135	18.887	45.826	47.690	1.00	47.29

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HETATM P	1305	P	PTR	A1135	20.096	46.933	47.510	1.00	47.95
HETATM O	1306	01P	PTR	A1135	21.238	46.297	48.213	1.00	46.60
HETATM O	1307	02P	PTR	A1135	19.528	48.125	48.200	1.00	48.05
HETATM O	1308	03P	PTR	A1135	20.249	47.089	46.043	1.00	46.43
HETATM N	1309	N	PTR	A1136	19.143	39.411	46.022	1.00	38.73
HETATM C	1310	CA	PTR	A1136	20.042	39.127	47.128	1.00	39.15
HETATM C	1311	С	PTR	A1136	21.402	39.693	46.762	1.00	39.90
HETATM O	1312	0	PTR	A1136	21.923	39.423	45.680	1.00	39.58
HETATM C	1313	CB	PTR	A1136	20.173	37.621	47.377	1.00	38.50
HETATM C	1314	CG	PTR	A1136	21.263	37.299	48.381	1.00	38.40
HETATM C	1315	CD1	PTR	A1136	21.028	37.389	49.755	1.00	38.33
HETATM C	1316	CD2	PTR	A1136	22.549	36.965	47.955	1.00	37.94
HETATM C	1317	CE1	PTR	A1136	22.053	37.157	50.677	1.00	39.61
HETATM C	1318	CE2	PTR	A1136	23.572	36.734	48.862	1.00	39.51
HETATM C	1319	CZ	PTR	A1136	23.323	36.831	50.221	1.00	40.38
HETATM O	1320	ОН	PTR	A1136	24.364	36.618	51.100	1.00	42.88
HETATM P	1321	P	PTR	A1136	24.436	36.484	52.729	1.00	45.09
HETATM O	1322	OlP	PTR	A1136	23.834	37.747	53.238	1.00	43.98
HETATM O	1323	02P	PTR	A1136	25.906	36.362	52.888	1.00	44.77
HETATM O	1324	03P	PTR	A1136	23.663	35.270	53.070	1.00	44.10
ATOM N	1325	N	ARG	A1137	21.974	40.484	47.662	1.00	40.96
ATOM C	1326	CA	ARG	A1137	23.284	41.074	47.421	1.00	42.17
ATOM C	1327	С	ARG	A1137	24.293	40.457	48.381	1.00	42.46
ATOM O	1328	0	ARG	A1137	24.097	40.462	49.598	1.00	42.30
ATOM C	1329	СВ	ARG	A1137	23.245	42.593	47.623	1.00	42.73
ATOM C	1330	CG	ARG	A1137	24.573	43.290	47.324	1.00	44.62
ATOM C	1331	CD	ARG	A1137	24.535	44.765	47.715	1.00	45.62
ATOM N	1332	NE	ARG	A1137	23.571	45.523	46.923	1.00	45.60
ATOM C	1333	CZ	ARG	A1137	23.775	45.912	45.670	1.00	46.03
ATOM	1334	NH1	ARG	A1137	24.915	45.622	45.060	1.00	46.49

N ATOM	1335	NH2	ARG	A1137	22.836	46.589	45.023	1.00	46.81
N ATOM	1336	N	LYS	A1138	25.371	39.917	47.827	1.00	42.70
N ATOM	1337	CA	LYS	A1138	26.409	39.302	48.641	1.00	42.66
C ATOM	1338	С	LYS	A1138	27.364	40.376	49.144	1.00	42.78
C ATOM	1339	0	LYS	A1138	27.872	41.181	48.364	1.00	41.86
O ATOM	1340	СВ	LYS	A1138	27.181	38.268	47.818	1.00	42.89
C ATOM	1341	CG	LYS	A1138	28.347	37.632	48.556	1.00	43.04
C ATOM	1342	CD		A1138	27.878	36.875	49.786		44.05
C ATOM	1343	CE		A1138	29.066	36.382	50.601		45.08
C ATOM	1344	NZ		A1138	28.634	35.641	51.812		45.65
N ATOM	1345	N		A1139	27.603	40.388	50.450		43.27
N ATOM	1346	CA		A1139	28.506	41.370	51.021		44.63
C ATOM	1347	C		A1139	29.804	40.756	51.517		45.15
C ATOM	1348	0		A1139	29.813	39.642	52.047		45.65
O ATOM	1349	N		A1140	30.907	41.477	51.335		
N ATOM	1350	CA		A1140					45.78
С					32.196	40.986	51.793		45.89
ATOM C	1351	С		A1140	32.851	39.950	50.898		46.07
ATOM O	1352	0		A1140	32.688	39.967	49.675		46.07
ATOM N	1353	N		A1141	33.599	39.043	51.518		45.30
ATOM C	1354	CA		A1141	34.296	37.987	50.792		44.44
ATOM C	1355	С		A1141	33.475	36.704	50.795	1.00	42.66
ATOM O	1356	0	LYS	A1141	32.599	36.520	51.642	1.00	42.95
ATOM C	1357	СВ	LYS	A1141	35.651	37.700	51.443	1.00	45.50
ATOM C	1358	CG	LYS	A1141	36.554	38.909	51.590	1.00	47.72
ATOM C	1359	CD	LYS	A1141	37.865	38.522	52.258	1.00	49.40
ATOM C	1360	CE	LYS	A1141	38.715	39.744	52.565	1.00	50.57
ATOM N	1361	NZ	LYS	A1141	39.983	39.370	53.254	1.00	52.71
ATOM N	1362	N	GLY	A1142	33.767	35.821	49.846	1.00	40.74
ATOM C	1363	CA	GLY	A1142	33.058	34.558	49.769	1.00	38.78
MOTA	1364	С	GLY	A1142	33.561	33.670	48.647	1.00	37.54

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ATOM O	1365	0	GLY	A1142	34.132	34.150	47.666	1.00	37.38
MOTA	1366	N	LEU	A1143	33.373	32.365	48.800	1.00	35.89
N ATOM	1367	CA	LEU	A1143	33.784	31.416	47.772	1.00	34.26
C ATOM	1368	С	LEU	A1143	32.541	31.229	46.906	1.00	33.66
C ATOM O	1369	0	LEU	A1143	31.576	30.579	47.318	1.00	32.21
MOTA	1370	СВ	LEU	A1143	34.209	30.089	48.405	1.00	33.34
C ATOM C	1371	CG	LEU	A1143	35.381	30.151	49.394	1.00	33.48
ATOM	1372	CD1	LEU	A1143	35.719	28.738	49.864	1.00	33.87
C ATOM	1373	CD2	LEU	A1143	36.593	30.782	48.730	1.00	32.08
C ATOM N	1374	N	LEU	A1144	32.568	31.810	45.711	1.00	32.55
ATOM C	1375	CA	LEU	A1144	31.427	31.744	44.807	1.00	31.61
ATOM	1376	С	LEU	A1144	31.738	31.041	43.500	1.00	29.52
C ATOM	1377	0	LEU	A1144	32.880	31.043	43.041	1.00	28.87
O ATOM C	1378	СВ	LEU	A1144	30.916	33.160	44.524	1.00	32.42
ATOM C	1379	CG	LEU	A1144	30.440	33.915	45.766	1.00	33.65
ATOM C	1380	CD1	LEU	A1144	30.035	35.338	45.399	1.00	34.15
ATOM C	1381	CD2	LEU	A1144	29.275	33.172	46.383	1.00	34.78
ATOM N	1382	N	PRO	A1145	30.711	30.430	42.883	1.00	28.32
ATOM C	1383	CA	PRO	A1145	30.807	29.697	41.617	1.00	27.00
ATOM C	1384	С	PRO	A1145	30.961	30.638	40.428	1.00	27.28
ATOM O	1385	0	PRO	A1145	30.061	30.759	39.592	1.00	26.30
ATOM C	1386	СВ	PRO	A1145	29.501	28.913	41.583	1.00	26.78
ATOM C	1387	CG	PRO	A1145	28.539	29.875	42.228	1.00	27.57
ATOM C	1388	CD	PRO	A1145	29.332	30.378	43.412	1.00	27.18
ATOM N	1389	N	VAL	A1146	32.119	31.294	40.366	1.00	25.54
ATOM C	1390	CA	VAL	A1146	32.440	32.252	39.314	1.00	26.17
ATOM C	1391	С	VAL	A1146	32.111	31.863	37.873	1.00	25.07
ATOM O	1392	0	VAL	A1146	31.586	32.685	37.122	1.00	26.03
ATOM C	1393	СВ	VAL	A1146	33.941	32.646	39.376	1.00	26.12
ATOM	1394	CG1	VAL	A1146	34.366	33.302	38.077	1.00	25.69

	C ATOM	1395	CG2	VAL	A1146	34.174	33.597	40.541	1.00 26.52	2
	C ATOM	1396	N	ARG	A1147	32.417	30.628	37.482	1.00 24.22	2
	N ATOM	1397	CA	ARG	A1147	32.165	30.185	36.110	1.00 23.23	L
	C ATOM	1398	С	ARG	A1147	30.701	29.933	35.766	1.00 22.32	2
	C ATOM	1399	0	ARG	A1147	30.383	29.599	34.632	1.00 21.76	ŝ
	O ATOM	1400	СВ	ARG	A1147	32.993	28.933	35.798	1.00 24.3	7
	C ATOM C	1401	CG	ARG	A1147	34.501	29.196	35.798	1.00 24.78	3
	ATOM C	1402	CD	ARG	A1147	35.329	27.916	35.716	1.00 26.53	3
	ATOM N	1403	NE	ARG	A1147	36.729	28.177	36.064	1.00 28.56	5
	ATOM C	1404	CZ	ARG	A1147	37.713	28.353	35.187	1.00 28.84	1
	ATOM N	1405	NH1	ARG	A1147	37.471	28.288	33.888	1.00 29.87	7
	ATOM N	1406	NH2	ARG	A1147	38.942	28.618	35.612	1.00 30.97	7
	ATOM N	1407	N	TRP	A1148	29.816	30.101	36.742	1.00 22.02	2
	ATOM C	1408	CA	TRP	A1148	28.379	29.892	36.535	1.00 22.03	3
	ATOM C	1409	С	TRP	A1148	27.602	31.191	36.805	1.00 22.08	3
	ATOM O	1410	0	TRP	A1148	26.384	31.242	36.636	1.00 22.40)
	ATOM C	1411	СВ	TRP	A1148	27.870	28.781	37.475	1.00 21.28	3
	ATOM C	1412	CG	TRP	A1148	28.182	27.364	37.015	1.00 21.41	L
	ATOM C	1413	CD1	TRP	A1148	27.359	26.536	36.303	1.00 19.85	5
	ATOM C	1414	CD2	TRP	A1148	29.423	26.654	37.170	1.00 21.72	3
	ATOM N	1415	NE1	TRP	A1148	28.007	25.364	35.999	1.00 22.04	1
	ATOM C	1416	CE2	TRP	A1148	29.275	25.409	36.516	1.00 21.25	5
	ATOM C	1417	CE3	TRP	A1148	30.645	26.952	37.789	1.00 21.59)
•	ATOM C	1418	CZ2	TRP	A1148	30.306	24.460	36.465	1.00 21.60)
	ATOM C	1419	CZ3	TRP	A1148	31.671	26.003	37.735	1.00 21.09	}
	ATOM C	1420	CH2	TRP	A1148	31.492	24.775	37.078	1.00 21.30)
	ATOM N	1421	N	MET	A1149	28.313	32.236	37.220	1.00 21.95	;
	ATOM C	1422	CA	MET	A1149	27.696	33.518	37.559	1.00 21.21	-
	ATOM C	1423	С	MET	A1149	27.503	34.517	36.423	1.00 20.65	;
	ATOM	1424	0	MET	A1149	28.342	34.649	35.542	1.00 19.63	}

O ATOM	1425	СВ	MET	A1149	28.492	34.177	38.685	1.00	21.34
C ATOM	1426	CG	MET	A1149	28.245	33.556	40.057	1.00	23.81
C ATOM S	1427	SD	MET	A1149	29.563	33.946	41.227	1.00	24.28
ATOM C	1428	CE	мет	A1149	29.232	35.680	41.536	1.00	22.44
ATOM N	1429	N	SER	A1150	26.383	35.229	36.459	1.00	20.62
ATOM C	1430	CA	SER	A1150	26.077	36.221	35.433	1.00	21.91
ATOM C	1431	С	SER	A1150	27.050	37.398	35.535	1.00	23.22
ATOM O	1432	0	SER	A1150	27.753	37.558	36.536	1.00	23.28
ATOM C	1433	СВ	SER	A1150	24.648	36.746	35.614	1.00	21.94
ATOM O	1434	OG	SER	A1150	24.567	37.582	36.757	1.00	20.51
ATOM N	1435	N	PRO	A1151	27.108	38.231	34.489	1.00	23.80
ATOM C	1436	CA	PRO	A1151	27.998	39.393	34.488	1.00	24.00
ATOM C	1437	С	PRO	A1151	27.698	40.346	35.646	1.00	24.99
ATOM O	1438	0	PRO	A1151	28.615	40.821	36.322	1.00	24.78
ATOM C	1439	CB	PRO	A1151	27.724	40.026	33.129	1.00	24.25
ATOM C	1440	CG	PRO	A1151	27.457	38.830	32.270	1.00	23.52
ATOM C	1441	CD	PRO	A1151	26.538	38.011	33.146	1.00	23.44
ATOM N	1442	N	GLU	A1152	26.418	40.621	35.882	1.00	26.35
ATOM C	1443	CA	GLU	A1152	26.044	41.534	36.962	1.00	27.19
ATOM C	1444	С	GLU	A1152	26.393	40.978	38.342	1.00	27.86
ATOM O	1445	0	GLU	A1152	26.744	41.738	39.251	1.00	27.76
ATOM C	1446	CB	GLU	A1152	24.546	41.861	36.907	1.00	27.85
ATOM C	1447	CG	GLU	A1152	23.627	40.684	37.224	1.00	27.45
ATOM C	1448	CD	GLU	A1152	23.235	39.891	35.998	1.00	27.50
ATOM O	1449	OE1	GLU	A1152	23.916	40.020	34.957	1.00	28.04
ATOM O	1450	OE2	GLU	A1152	22.249	39.129	36.078	1.00	26.69
ATOM N	1451	N	SER	A1153	26.290	39.657	38.502	1.00	27.90
ATOM C	1452	CA	SER	A1153	26.611	39.014	39.776	1.00	28.81
ATOM C	1453	С	SER	A1153	28.112	39.096	40.015	1.00	29.24
MOTA	1454	0	SER	A1153	28.560	39.363	41.124	1.00	29.44

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O ATOM	1455	СВ	SER	A1153	26.187	37.537	39.773	1.00	28.63
C ATOM	1456	oG	SER	A1153	24.779	37.400	39.738	1.00	27.87
O ATOM	1457	N	LEU	A1154	28.887	38.857	38.965	1.00	31.33
N ATOM	1458	CA	LEU	A1154	30.333	38.918	39.082	1.00	32.30
C ATOM	1459	С	LEU	A1154	30.764	40.343	39.415	1.00	34.21
C ATOM	1460	0	LEU	A1154	31.722	40.553	40.158	1.00	34.22
O ATOM	1461	СВ	LEU	A1154	30.994	38.483	37.773	1.00	31.82
C ATOM	1462	CG	LEU	A1154	30.936	37.012	37.353	1.00	31.01
C ATOM	1463	CD1	LEU	A1154	31.453	36.882	35.937	1.00	30.51
C ATOM	1464	CD2	LEU	A1154	31.760	36.155	38.309	1.00	31.14
C ATOM	1465	N	LYS	A1155	30.046	41.321	38.871	1.00	35.41
N ATOM	1466	CA	LYS	A1155	30.396	42.718	39.092	1.00	37.26
C ATOM C	1467	С	LYS	A1155	30.067	43.282	40.474	1.00	37.90
MOTA	1468	0	LYS	A1155	30.910	43.930	41.088	1.00	39.01
O ATOM C	1469	СВ	LYS	A1155	29.759	43.599	38.012	1.00	38.43
ATOM C	1470	CG	LYS	A1155	30.502	44.917	37.819	1.00	42.06
ATOM C	1471	CD	LYS	A1155	29.870	45.811	36.758	1.00	43.61
ATOM C	1472	CE	LYS	A1155	28.624	46.501	37.285	1.00	46.15
ATOM N	1473	NZ	LYS	A1155	28.123	47.538	36.335	1.00	46.94
ATOM N	1474	N	ASP	A1156	28.858	43.050	40.974	1.00	38.49
ATOM C	1475	CA	ASP	A1156	28.502	43.581	42.287	1.00	39.27
ATOM C	1476	С	ASP	A1156	27.768	42.629	43.227	1.00	38.06
ATOM O	1477	0	ASP	A1156	27.036	43.064	44.120	1.00	37.93
ATOM C	1478	СВ	ASP	A1156`	27.703	44.879	42.126	1.00	41.62
ATOM C	1479	CG	ASP	A1156	26.924	44.922	40.835	1.00	44.42
ATOM O	1480	OD1	ASP	A1156	26.005	44.091	40.666	1.00	47.33
ATOM O	1481	OD2	ASP	A1156	27.240	45.783	39.984	1.00	45.06
ATOM N	1482	N	GLY	A1157	27.968	41.331	43.020	1.00	36.85
ATOM C	1483	CA		A1157	27.353	40.331	43.878	1.00	35.19
MOTA	1484	С	GLY	A1157	25.843	40.336	44.027	1.00	33.92

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C ATOM	1485	0	GLY	A1157	25.327	39.908	45.059	1.00	33.36
O ATOM N	1486	N	VAL	A1158	25.127	40.804	43.008	1.00	32.96
ATOM C	1487	CA	VAL	A1158	23.668	40.825	43.066	1.00	32.37
ATOM C	1488	С	VAL	A1158	23.104	39.576	42.378	1.00	30.55
ATOM O	1489	0	VAL	A1158	23.466	39.256	41.243	1.00	30.52
ATOM C	1490	CB	VAL	A1158	23.099	42.104	42.394	1.00	33.85
ATOM C	1491	CG1	VAL	A1158	23.366	42.081	40.902	1.00	34.94
ATOM C	1492	CG2	VAL	A1158	21.617	42.225	42.674	1.00	35.56
ATOM N	1493	N	PHE	A1159	22.222	38.867	43.076	1.00	29.06
ATOM C	1494	CA	PHE	A1159	21.616	37.654	42.539	1.00	27.66
ATOM C	1495	С	PHE	A1159	20.103	37.799	42.414	1.00	26.79
ATOM O	1496	0	PHE	A1159	19.435	38.200	43.359	1.00	25.96
ATOM C	1497	СВ	PHE	A1159	21.942	36.451	43.435	1.00	25.78
ATOM C	1498	CG	PHE	A1159	23.409	36.099	43.480	1.00	26.78
ATOM C	1499	CD1	PHE	A1159	24.306	36.869	44.213	1.00	26.61
ATOM C	1500	CD2	PHE	A1159	23.892	34.993	42.789	1.00	25.51
ATOM C	1501	CE1	PHE	A1159	25.663	36.542	44.256	1.00	25.91
ATOM C	1502	CE2	PHE	A1159	25.244	34.658	42.825	1.00	26.91
ATOM C	1503	CZ	PHE	A1159	26.135	35.435	43.562	1.00	25.20
ATOM N	1504	N	THR	A1160	19.577	37.459	41.241	1.00	25.52
ATOM C	1505	CA	THR	A1160	18.146	37.555	40.964	1.00	25.74
ATOM C	1506	С	THR	A1160	17.698	36.305	40.221	1.00	24.38
ATOM O	1507	0	THR	A1160	18.516	35.461	39.881	1.00	24.42
ATOM C	1508	СВ	THR	A1160	17.846	38.728	40.028	1.00	25.44
ATOM .	1509	OG1	THR	A1160	18.443	38.458	38.758	1.00	26.76
ATOM C	1510	CG2	THR	A1160	18.422	40.034	40.573	1.00	25.40
ATOM N	1511	N	THR	A1161	16.397	36.190	39.964	1.00	24.58
ATOM C	1512	CA	THR	A1161	15.901	35.054	39.204	1.00	24.19
ATOM C	1513	С	THR	A1161	16.585	35.134	37.836	1.00	23.61
MOTA	1514	0	THR	A1161	16.790	34.113	37.180	1.00	22.54

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ATOM C	1515	СВ	THR	A1161	14.367	35.105	39.003	1.00	25.24
ATOM O	1516	OG1	THR	A1161	14.015	36.276	38.255	1.00	26.83
ATOM C	1517	CG2	THR	A1161	13.655	35.139	40.345	1.00	25.51
ATOM N	1518	N	TYR	A1162	16.944	36.352	37.420	1.00	22.79
ATOM C	1519	CA	TYR	A1162	17.611	36.558	36.132	1.00	23.33
ATOM C	1520	С	TYR	A1162	18.991	35.914	36.121	1.00	21.37
ATOM O	1521	0	TYR	A1162	19.388	35.324	35.125	1.00	19.55
ATOM C	1522	CB	TYR	A1162	17.799	38.048	35.811	1.00	26.24
ATOM C	1523	CG	TYR	A1162	16.588	38.920	36.012	1.00	31.15
ATOM C	1524	CD1	TYR	A1162	15.338	38.546	35.517	1.00	32.33
ATOM C	1525	CD2	TYR	A1162	16.700	40.140	36.683	1.00	32.29
ATOM C	1526	CE1	TYR	A1162	14.220	39.372	35.686	1.00	35.37
ATOM C	1527	CE2	TYR	A1162	15.595	40.972	36.856	1.00	35.36
ATOM C	1528	CZ	TYR	A1162	14.359	40.584	36.356	1.00	36.14
ATOM O	1529	ОН	TYR	A1162	13.274	41.415	36.524	1.00	38.51
ATOM N	1530	N	SER	A1163	19.729	36.032	37.221	1.00	20.36
ATOM C	1531	CA	SER	A1163	21.053	35.425	37.252	1.00	20.66
ATOM C	1532	С	SER	A1163	20.925	33.910	37.364	1.00	19.20
ATOM O	1533	0	SER	A1163	21.821	33.193	36.963	1.00	20.57
ATOM C	1534	СВ	SER	A1163	21.913	36.009	38.388	1.00	20.41
ATOM O	1535	OG	SER	A1163	21.261	35.950	39.638	1.00	20.56
ATOM N	1536	N	ASP	A1164	19.809	33.421	37.904	1.00	19.83
ATOM C	1537	CA	ASP	A1164	19.584	31.975	37.994	1.00	18.38
ATOM C	1538	С	ASP	A1164	19.384	31.483	36.553	1.00	18.45
ATOM O	1539	0	ASP	A1164	19.806	30.386	36.183	1.00	17.16
ATOM C	1540	СВ	ASP	A1164	18.316	31.653	38.797	1.00	18.06
ATOM C	1541	CG	ASP	A1164	18.572	31.457	40.287	1.00	18.68
ATOM O	1542	OD1	ASP	A1164	19.745	31.451	40.725	1.00	18.00
ATOM O	1543	OD2	ASP	A1164	17.572	31.297	41.025	1.00	17.03
ATOM	1544	N	VAL	A1165	18.735	32.303	35.735	1.00	18.36

N ATOM	1545	CA	VAL	A1165	18.497	31.926	34.347	1.00	17.43
C ATOM C	1546	С	VAL	A1165	19.826	31.879	33.592	1.00	18.58
ATOM O	1547	0	VAL	A1165	20.013	31.043	32.706	1.00	18.39
ATOM C	1548	СВ	VAL	A1165	17.504	32.902	33.670	1.00	17.29
ATOM C	1549	CG1	VAL	A1165	17.495	32.693	32.160	1.00	16.72
ATOM C	1550	CG2	VAL	A1165	16.095	32.657	34.223	1.00	14.96
ATOM N	1551	N	TRP	A1166	20.748	32.773	33.946	1.00	17.75
ATOM C	1552	CA	TRP	A1166	22.067	32.776	33.316	1.00	18.72
ATOM C	1553	С	TRP	A1166	22.749	31.436	33.592	1.00	18.21
ATOM O	1554	0	TRP	A1166	23.264	30.791	32.677	1.00	18.45
ATOM C	1555	СВ	TRP	A1166	22.939	33.906	33.874	1.00	18.75
ATOM C	1556	CG	TRP	A1166	24.350	33.875	33.352	1.00	20.20
ATOM C	1557	CD1	TRP	A1166	25.360	33.041	33.754	1.00	20.58
ATOM C	1558	CD2	TRP	A1166	24.884	34.663	32.283	1.00	20.50
ATOM N	1559	NE1	TRP	A1166	26.484	33.262	32.996	1.00	20.05
ATOM C	1560	CE2	TRP	A1166	26.220	34.253	32.087	1.00	21.51
ATOM C	1561	CE3	TRP	A1166	24.361	35.680	31.469	1.00	20.80
ATOM C	1562	CZ2	TRP	A1166	27.047	34.822	31.107	1.00	21.96
ATOM C	1563	CZ3	TRP	A1166	25.179	36.246	30.496	1.00	22.00
ATOM C	1564	CH2	TRP	A1166	26.509	35.813	30.324	1.00	22.50
ATOM N	1565	N	SER	A1167	22.753	31.030	34.860	1.00	17.58
ATOM C	1566	CA	SER	A1167	23.370	29.764	35.266	1.00	17.66
ATOM C	1567	С	SER	A1167	22.712	28.584	34.570	1.00	17.54
ATOM O	1568	0	SER	A1167	23.379	27.614	34.226	1.00	17.89
ATOM C	1569	СВ	SER	A1167	23.273	29.585	36.780	1.00	17.37
ATOM O	1570	OG	SER	A1167	23.954	30.631	37.444	1.00	20.33
ATOM N	1571	N	PHE	A1168	21.399	28.659	34.369	1.00	17.45
ATOM C	1572	CA	PHE	A1168	20.687	27.587	33.674	1.00	18.21
ATOM C	1573	С	PHE	A1168	21.314	27.457	32.280	1.00	18.08
MOTA	1574	0	PHE	A1168	21.484	26.354	31.757	1.00	17.75

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O ATOM C	1575	СВ	PHE	A1168	19.198	27.934	33.561	1.00 19.12
ATOM C	1576	CG	PHE	A1168	18.402	26.965	32.723	1.00 20.24
ATOM C	1577	CD1	PHE	A1168	18.062	25.711	33.213	1.00 20.78
ATOM C	1578	CD2	PHE	A1168	17.976	27.321	31.445	1.00 20.98
ATOM C	1579	CE1	PHE	A1168	17.301	24.823	32.442	1.00 19.86
ATOM C	1580	CE2	PHE	A1168	17.215	26.436	30.666	1.00 20.47
ATOM C	1581	CZ	PHE	A1168	16.880	25.194	31.169	1.00 21.49
MOTA	1582	N	GLY	A1169	21.664	28.592	31.680	1.00 18.86
N ATOM C	1583	CA	GLY	A1169	22.287	28.559	30.368	1.00 17.80
ATOM C	1584	С	GLY	A1169	23.582	27.772	30.434	1.00 19.15
ATOM O	1585	0	GLY	A1169	23.900	26.983	29.538	1.00 19.60
ATOM N	1586	N	VAL	A1170	24.342	27.972	31.505	1.00 18.68
ATOM C	1587	CA	VAL	A1170	25.598	27.246	31.639	1.00 20.58
ATOM C	1588	С	VAL	A1170	25.339	25.751	31.808	1.00 20.77
ATOM O	1589	0	VAL	A1170	26.080	24.924	31.269	1.00 20.63
ATOM C	1590	СВ	VAL	A1170	26.426	27.768	32.817	1.00 20.58
ATOM C	1591	CG1	VAL	A1170	27.751	26.993	32.898	1.00 21.16
ATOM C	1592	CG2	VAL	A1170	26.707	29.265	32.615	1.00 19.95
ATOM N	1593	N	VAL	A1171	24.288	25.406	32.548	1.00 20.40
ATOM C	1594	CA	VAL	A1171	23.944	24.000	32.756	1.00 19.79
ATOM C	1595	С	VAL	A1171	23.602	23.363	31.405	1.00 20.48
ATOM O	1596	0	VAL	A1171	23.968	22.219	31.147	1.00 21.21
ATOM C	1597	СВ	VAL	A1171	22.761	23.851	33.741	1.00 19.08
ATOM C	1598	CG1	VAL	A1171	22.314	22.394	33.827	1.00 19.15
ATOM C	1599	CG2	VAL	A1171	23.178	24.338	35.117	1.00 17.80
ATOM N	1600	N	LEU	A1172	22.905	24.100	30.542	1.00 21.04
ATOM C	1601	CA	LEU	A1172	22.575	23.583	29.216	1.00 21.60
ATOM C	1602	С	LEU	A1172	23.879	23.289	28.475	1.00 21.76
MOTA O	1603	0	LEU	A1172	24.012	22.258	27.818	1.00 21.18
MOTA	1604	СВ	LEU	A1172	21.752	24.597	28.415	1.00 22.42

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C ATOM	1605	CG	LEU	A1172	20.328	24.868	28.907	1.00	20.90
C ATOM	1606	CD1	LEU	A1172	19.589	25.707	27.873	1.00	21.75
C ATOM	1607	CD2	LEU	A1172	19.602	23.543	29.125	1.00	23.30
C ATOM	1608	N	TRP	A1173	24.839	24.201	28.585	1.00	22.28
N ATOM	1609	CA	TRP	A1173	26.139	24.015	27.938	1.00	23.36
C ATOM	1610	С	TRP	A1173	26.803	22.747	28.498	1.00	22.64
C ATOM	1611	0	TRP	A1173	27.355	21.940	27.755	1.00	24.20
O ATOM	1612	СВ	TRP	A1173	27.038	25.222	28.208	1.00	22.87
C ATOM	1613	CG	TRP	A1173	28.352	25.200	27.464	1.00	24.86
C ATOM	1614	CD1	TRP	A1173	28.586	25.652	26.193	1.00	25.62
C ATOM	1615	CD2	TRP	A1173	29.610	24.718	27.954	1.00	25.24
C ATOM	1616	NE1	TRP	A1173	29.911	25.488	25.866	1.00	24.24
N ATOM	1617	CE2	TRP	A1173	30.562	24.918	26.927	1.00	26.69
C ATOM	1618	CE3	TRP	A1173	30.026	24.142	29.161	1.00	26.90
C ATOM C	1619	CZ2	TRP	A1173	31.911	24.556	27.072	1.00	26.56
ATOM C	1620	CZ3	TRP	A1173	31.365	23.785	29.305	1.00	26.67
ATOM C	1621	CH2	TRP	A1173	32.291	23.995	28.265	1.00	26.69
ATOM N	1622	N	GLU	A1174	26.745	22.572	29.813	1.00	22.84
ATOM C	1623	CA	GLU	A1174	27.343	21.400	30.438	1.00	22.69
ATOM C	1624	С	GLU	A1174	26.702	20.125	29.899	1.00	23.15
ATOM O	1625	0	GLU	A1174	27.375	19.121	29.666	1.00	21.87
ATOM C	1626	CB	GLU	A1174	27.163	21.453	31.952	1.00	23.39
ATOM C	1627	CG	GLU	A1174	28.076	22.433	32.671	1.00	23.69
ATOM C	1628	CD	GLU	A1174	27.889	22.369	34.175	1.00	24.63
ATOM O	1629	OE1	GLU	A1174	26.871	22.901	34.670	1.00	23.59
ATOM O	1630	OE2	GLU	A1174	28.753	21.774	34.861	1.00	24.00
ATOM N	1631	N	ILE	A1175	25.393	20.164	29.702	1.00	22.76
ATOM C	1632	CA	ILE	A1175	24.698	18.997	29.182	1.00	24.36
ATOM C	1633	С	ILE	A1175	25.169	18.670	27.761	1.00	24.95
ATOM	1634	0	ILE	A1175	25.516	17.530	27.469	1.00	25.29

O ATOM C	1635	СВ	ILE	A1175	23.179	19.227	29.190	1.00 23.89
ATOM C	1636	CG1	ILE	A1175	22.688	19.292	30.640	1.00 23.04
ATOM C	1637	CG2	ILE	A1175	22.474	18.136	28.387	1.00 24.11
ATOM C	1638	CD1	ILE	A1175	21.185	19.531	30.788	1.00 23.37
ATOM N	1639	N	ALA	A1176	25.186	19.675	26.889	1.00 25.64
ATOM C	1640	CA	ALA	A1176	25.600	19.482	25.498	1.00 26.86
ATOM C	1641	С	ALA	A1176	27.072	19.112	25.299	1.00 27.84
MOTA	1642	0	ALA	A1176	27.424	18.578	24.253	1.00 28.96
O ATOM	1643	СВ	ALA	A1176	25.275	20.727	24.675	1.00 25.07
C ATOM N	1644	N	THR	A1177	27.926	19.397	26.283	1.00 27.35
ATOM C	1645	CA	THR	A1177	29.351	19.071	26.173	1.00 29.06
ATOM C	1646	С	THR	A1177	29.733	17.883	27.055	1.00 29.00
MOTA	1647	0	THR	A1177	30.912	17.544	27.165	1.00 28.67
O ATOM C	1648	CB	THR	A1177	30.253	20.254	26.611	1.00 28.15
ATOM	1649	OG1	THR	A1177	29.969	20.582	27.977	1.00 29.36
O ATOM C	1650	CG2	THR	A1177	30.017	21.477	25.739	1.00 28.44
MOTA	1651	N	LEU	A1178	28.741	17.256	27.681	1.00 30.07
N ATOM C	1652	CA	LEU	A1178	28.992	16.133	28.580	1.00 30.49
ATOM C	1653	С	LEU	A1178	29.897	16.558	29.729	1.00 30.81
MOTA	1654	0	LEU	A1178	30.914	15.919	30.017	1.00 31.06
O ATOM	1655	СВ	LEU	A1178	29.615	14.948	27.832	1.00 30.85
C ATOM C	1656	CG	LEU	A1178	28.714	14.291	26.781	1.00 32.12
MOTA	1657	CD1	LEU	A1178	29.386	13.028	26.256	1.00 31.80
C ATOM C	1658	CD2	LEU	A1178	27.355	13.946	27.397	1.00 31.79
ATOM N	1659	N	ALA	A1179	29.506	17.652	30.375	1.00 30.26
ATOM	1660	CA	ALA	A1179	30.207	18.208	31.525	1.00 30.16
C ATOM	1661	С	ALA	A1179	31.652	18.639	31.321	1.00 31.33
C ATOM	1662	0	ALA	A1179	32.527	18.283	32.107	1.00 30.33
O ATOM	1663	СВ	ALA	A1179	30.125	17.240	32.706	1.00 30.30
C ATOM	1664	N	GLU	A1180	31.908	19.407	30.271	1.00 32.25

N ATOM	1665	CA	GLU	A1180	33.255	19.910	30.052	1.00	34.21
C ATOM	1666	С	GLU	A1180	33.341	21.026	31.088	1.00	33.67
C ATOM	1667	0	GLU	A1180	32.311	21.503	31.556	1.00	33.21
O ATOM	1668	СВ	GLU	A1180	33.393	20.495	28.642	1.00	36.10
C ATOM	1669	CG	GLU	A1180	34.828	20.573	28.148	1.00	40.32
C ATOM	1670	CD	GLU	A1180	35.426	19.194	27.924	1.00	41.89
C ATOM	1671	OE1	GLU	A1180	34.966	18.495	26.995	1.00	43.51
O ATOM	1672	OE2	GLU	A1180	36.343	18.803	28.680	1.00	43.58
O ATOM	1673	N	GLN	A1181	34.545	21.440	31.460	1.00	33.14
N ATOM	1674	CA	GLN	A1181	34.682	22.519	32.432	1.00	34.15
C ATOM	1675	С	GLN	A1181	34.403	23.839	31.717	1.00	33.39
C ATOM	1676	0	GLN	A1181	34.995	24.117	30.668	1.00	32.59
O ATOM	1677	СВ	GLN	A1181	36.098	22.541	33.009	1.00	36.27
C ATOM C	1678	CG	GLN	A1181	36.380	23.736	33.907	1.00	40.12
ATOM C	1679	CD	GLN	A1181	35.654	23.659	35.237	1.00	42.74
ATOM O	1680	OE1	GLN	A1181	35.803	24.537	36.089	1.00	45.31
ATOM N	1681	NE2	GLN	A1181	34.868	22.602	35.427	1.00	43.77
ATOM N	1682	N	PRO	A1182	33.490	24.665	32.260	1.00	32.32
ATOM C	1683	CA	PRO	A1182	33.181	25.947	31.616	1.00	31.77
ATOM C	1684	С	PRO	A1182	34.419	26.837	31.529	1.00	31.38
ATOM O	1685	0	PRO	A1182	35.154	26.976	32.502	1.00	31.14
ATOM C	1686	СВ	PRO	A1182	32.115	26.548	32.530	1.00	31.59
ATOM C	1687	CG	PRO	A1182	31.445	25.341	33.117	1.00	32.69
ATOM C	1688	CD	PRO	A1182	32.617	24.443	33.426	1.00	32.06
ATOM N	1689	N	TYR	A1183	34.640	27.434	30.361	1.00	31.71
ATOM C	1690	CA	TYR	A1183	35.784	28.319	30.145	1.00	32.02
ATOM C	1691	С	TYR	A1183	37.086	27.585	30.455	1.00	33.65
ATOM O	1692	0		A1183	37.983	28.130	31.105	1.00	33.43
ATOM C	1693	CB	TYR	A1183	35.674	29.558	31.038		30.45
ATOM	1694	CG	TYR	A1183	34.327	30.249	30.981	1.00	28.66

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ATOM C	1695	CD1	TYR	A1183	33.974	31.070	29.904	1.00	27.81
ATOM C	1696	CD2	TYR	A1183	33.396	30.066	32.004	1.00	27.87
ATOM C	1697	CE1	TYR	A1183	32.714	31.694	29.852	1.00	27.64
ATOM C	1698	CE2	TYR	A1183	32.145	30.680	31.964	1.00	27.39
ATOM C	1699	CZ	TYR	A1183	31.809	31.488	30.890	1.00	27.82
ATOM O	1700	ОН	TYR	A1183	30.563	32.066	30.866	1.00	28.42
ATOM N	1701	N	GLN	A1184	37.182	26.347	29.987	1.00	35.15
ATOM C	1702	CA	GLN	A1184	38.369	25.535	30.210	1.00	38.12
ATOM C	1703	С	GLN	A1184	39.600	26.176	29.584	1.00	38.26
ATOM O	1704	0	GLN	A1184	39.595	26.542	28.410	1.00	37.98
ATOM C	1705	СВ	GLN	A1184	38.160	24.140	29.626	1.00	40.97
ATOM C	1706	CG	GLN	A1184	39.376	23.239	29.725	1.00	45.31
ATOM C	1707	CD	GLN	A1184	39.004	21.771	29.655	1.00	48.16
ATOM O	1708	OE1	GLN	A1184	38.232	21.273	30.482	1.00	50.21
ATOM N	1709	NE2	GLN	A1184	39.547	21.067	28.666	1.00	49.52
ATOM N	1710	N	GLY	A1185	40.659	26.309	30.372	1.00	38.45
ATOM C	1711	CA	GLY	A1185	41.872	26.913	29.854	1.00	38.60
ATOM C	1712	С	GLY	A1185	42.040	28.331	30.361	1.00	38.43
ATOM O	1713	0	GLY	A1185	43.140	28.883	30.324	1.00	39.31
ATOM N	1714	N	LEU	A1186	40.948	28.929	30.829	1.00	37.69
ATOM C	1715	CA	LEU	A1186	40.998	30.284	31.360	1.00	36.66
ATOM C	1716	С	LEU	A1186	41.107	30.239	32.878	1.00	36.55
ATOM O	1717	0	LEU	A1186	40.409	29.466	33.535	1.00	36.44
ATOM C	1718	СВ	LEU	A1186	39.741	31.071	30.971	1.00	36.43
ATOM C	1719	CG	LEU	A1186	39.601	31.533	29.520	1.00	36.99
ATOM C	1720	CD1	LEU	A1186	38.334	32.360	29.342	1.00	36.82
ATOM C	1721	CD2	LEU	A1186	40.807	32.366	29.158	1.00	38.03
ATOM N	1722	N	SER	A1187	41.986	31.062	33.436	1.00	35.34
ATOM C	1723	CA	SER	A1187	42.136	31.114	34.880	1.00	35.18
MOTA	1724	С	SER	A1187	40.884	31.819	35.390	1.00	35.63

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C ATOM O	1725	0	SER	A1187	40.159	32.439	34.608	1.00	35.88
ATOM C	1726	СВ	SER	A1187	43.366	31.933	35.261	1.00	34.55
ATOM O	1727	OG	SER	A1187	43.177	33.283	34.890	1.00	32.41
ATOM N	1728	N	ASN	A1188	40.630	31.730	36.689	1.00	34.98
ATOM C	1729	CA	ASN	A1188	39.455	32.370	37.262	1.00	35.62
ATOM C	1730	С	ASN	A1188	39.439	33.855	36.910	1.00	35.61
ATOM O	1731	0	ASN	A1188	38.384	34.431	36.641	1.00	34.31
ATOM C	1732	CB	ASN	A1188	39.437	32.181	38.781	1.00	34.56
ATOM C	1733	CG	ASN	A1188	39.387	30.718	39.178	1.00	35.92
ATOM O	1734	OD1	ASN	A1188	38.721	29.917	38.524	1.00	35.19
ATOM N	1735	ND2	ASN	A1188	40.080	30.364	40.259	1.00	35.78
ATOM N	1736	N	GLU	A1189	40.624	34.458	36.912	1.00	36.09
ATOM C	1737	CA	GLU	A1189	40.788	35.871	36.592	1.00	36.71
ATOM C	1738	С	GLU	A1189	40.323	36.206	35.185	1.00	35.48
ATOM O	1739	0	GLU	A1189	39.588	37.171	34.976	1.00	35.09
ATOM C	1740	CB	GLU	A1189	42.257	36.273	36.732	1.00	39.67
ATOM C	1741	CG	GLU	A1189	42.610	36.813	38.095	1.00	42.50
ATOM C	1742	CD	GLU	A1189	41.675	37.927	38.505	1.00	44.59
ATOM O	1743	OE1	GLU	A1189	41.312	38.743	37.626	1.00	44.64
ATOM O	1744	OE2	GLU	A1189	41.309	37.987	39.699	1.00	45.54
ATOM N	1745	N	GLN	A1190	40.765	35.405	34.223	1.00	33.88
ATOM C	1746	CA	GLN	A1190	40.400	35.610	32.833	1.00	34.12
ATOM C	1747	С	GLN	A1190	38.904	35.387	32.635	1.00	34.04
ATOM O	1748	0	GLN	A1190	38.282	36.026	31.783	1.00	32.68
ATOM C	1749	СВ	GLN	A1190	41.200	34.662	31.934	1.00	34.86
ATOM C	1750	CG	GLN	A1190	42.700	34.950	31.914	1.00	35.71
ATOM C	1751	CD	GLN	A1190	43.482	33.904	31.150	1.00	36.69
ATOM O	1752	OE1	GLN	A1190	43.489	32.727	31.518	1.00	37.31
ATOM N	1753	NE2	GLN	A1190	44.147	34.325	30.078	1.00	35.94
MOTA	1754	N	VAL	A1191	38.327	34.478	33.420	1.00	33.55

N ATOM	1755	CA	VAL	A1191	36.898	34.204	33.318	1.00	32.93
C ATOM C	1756	С	VAL	A1191	36.131	35.445	33.725	1.00	33.19
MOTA O	1757	0	VAL	A1191	35.226	35.885	33.019	1.00	33.68
ATOM C	1758	CB	VAL	A1191	36.475	33.031	34.226	1.00	32.45
ATOM C	1759	CG1	VAL	A1191	34.952	32.994	34.353	1.00	32.10
ATOM C	1760	CG2	VAL	A1191	36.981	31.723	33.637	1.00	30.99
MOTA	1761	N	LEU	A1192	36.504	36.006	34.869	1.00	34.12
N ATOM C	1762	CA	LEU	A1192	35.866	37.206	35.388	1.00	35.32
MOTA	1763	С	LEU	A1192	35.866	38.311	34.332	1.00	35.55
C ATOM O	1764	0	LEU	A1192	34.844	38.960	34.096	1.00	35.01
MOTA	1765	СВ	LEU	A1192	36.611	37.689	36.635	1.00	37.17
C ATOM C	1766	CG	LEU	A1192	35.805	37.887	37.923	1.00	39.16
ATOM	1767	CD1	LEU	A1192	34.719	38.927	37.692	1.00	40.74
C ATOM C	1768	CD2	LEU	A1192	35.197	36.560	38.360	1.00	39.96
	1769	N	ARG	A1193	37.015	38.515	33.695	1.00	35.01
MOTA	1770	CA	ARG	A1193	37.152	39.549	32.673	1.00	35.31
C ATOM C	1771	С	ARG	A1193	36.423	39.194	31.383	1.00	33.90
MOTA	1772	0	ARG	A1193	35.741	40.029	30.797	1.00	33.16
O ATOM C	1773	СВ	ARG	A1193	38.631	39.789	32.355	1.00	36.67
ATOM	1774	CG	ARG	A1193	39.470	40.165	33.560	1.00	39.06
C ATOM C	1775	CD	ARG	A1193	40.921	40.385	33.162	1.00	41.64
MOTA	1776	NE	ARG	A1193	41.783	40.580	34.323	1.00	43.71
N ATOM C	1777	CZ	ARG	A1193	43.059	40.946	34.250	1.00	45.34
MOTA	1778	NH1	ARG	A1193	43.625	41.161	33.067	1.00	45.29
N ATOM N	1779	NH2	ARG	A1193	43.770	41.093	35.360	1.00	46.07
ATOM N	1780	N	PHE	A1194	36.580	37.951	30.944	1.00	32.63
ATOM	1781	CA	PHE	A1194	35.950	37.481	29.718	1.00	32.35
C ATOM C	1782	С	PHE	A1194	34.435	37.665	29.747	1.00	32.22
ATOM O	1783	0	PHE	A1194	33.846	38.211	28.809	1.00	31.58
ATOM	1784	СВ	PHE	A1194	36.273	35.999	29.500	1.00	31.66

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C ATOM	1785	CG	PHE	A1194	35.744	35.445	28.207	1.00 32.46	
C ATOM	1786	CD1	PHE	A1194	36.161	35.971	26.984	1.00 31.29	
C ATOM	1787	CD2	PHE	A1194	34.834	34.392	28.209	1.00 31.60	
C ATOM	1788	CE1	PHE	A1194	35.682	35.457	25.786	1.00 31.74	
C ATOM	1789			A1194	34.346	33.869	27.015	1.00 31.40	
C ATOM	1790	cz		A1194	34.771	34.401	25.799	1.00 32.67	
C ATOM	1791	N		A1195	33.811	37.208	30.827	1.00 31.38	
N									
ATOM C	1792	CA		A1195	32.360	37.295	30.967	1.00 31.01	
ATOM C	1793	С		A1195	31.830	38.713	31.175	1.00 31.46	
ATOM O	1794	0	VAL	A1195	30.838	39.105	30.560	1.00 30.89	
ATOM C	1795	CB	VAL	A1195	31.864	36.407	32.132	1.00 29.97	
ATOM C	1796	CG1	VAL	A1195	30.363	36.585	32.322	1.00 29.10	
ATOM C	1797	CG2	VAL	A1195	32.178	34.949	31.837	1.00 28.84	
ATOM N	1798	N	MET	A1196	32.485	39.480	32.037	1.00 32.36	
ATOM C	1799	CA	MET	A1196	32.037	40.837	32.302	1.00 34.20	
ATOM C	1800	С	MET	A1196	32.186	41.746	31.092	1.00 34.32	
MOTA	1801	0	MET	A1196	31.535	42.783	31.008	1.00 34.68	
O ATOM	1802	CB	MET	A1196	32.778	41.422	33.507	1.00 35.34	
C ATOM	1803	CG	MET	A1196	32.141	41.045	34.836	1.00 36.88	
C ATOM	1804	SD	MET	A1196	33.015	41.665	36.284	1.00 40.41	
S ATOM	1805	CE	MET	A1196	32.869	43.439	36.046	1.00 41.79	
C ATOM	1806	N	GLU	A1197	33.037	41.355	30.152	1.00 34.94	
N ATOM	1807	CA	GLU	A1197	33.235	42.149	28.950	1.00 36.46	
C ATOM	1808	С	GLU	A1197	32.321	41.723	27.805	1.00 35.47	
C ATOM	1809	0	GLU	A1197	32.364	42.305	26.727	1.00 35.30	
O ATOM	1810	СВ	GLU	A1197	34.697	42.088	28.508	1.00 38.52	
C ATOM	1811	CG	GLU	A1197	35.612	42.975	29.339	1.00 42.80	
C ATOM	1812	CD	GLU	A1197	37.069	42.857	28.933	1.00 45.45	
C ATOM	1813	OE1		A1197	37.362	42.972	27.723	1.00 48.18	
O ATOM	1814			A1197	37.922	42.655	29.823	1.00 47.47	

	O ATOM	1815	N	GLY	A1198	31.490	40.710	28.038	1.00	34.57
	N ATOM	1816	CA	GLY	A1198	30.573	40.267	26.999	1.00	32.04
	C ATOM	1817	С	GLY	A1198	30.889	38.938	26.339	1.00	31.11
	C ATOM	1818	0	GLY	A1198	30.192	38.530	25.410	1.00	31.81 .
	O ATOM	1819	N	GLY	A1199	31.930	38.258	26.809	1.00	29.92
	N ATOM	1820	CA	GLY	A1199	32.290	36.972	26.232	1.00	29.02
	C ATOM	1821	С	GLY	A1199	31.331	35.869	26.644	1.00	28.59
	C ATOM	1822	0	GLY	A1199	30.657	35.982	27.669	1.00	26.96
	O ATOM	1823	N	LEU	A1200	31.276	34.804	25.845	1.00	29.10
	N ATOM	1824	CA	LEU	A1200	30.391	33.667	26.107	1.00	29.42
	C ATOM	1825	С	LEU	A1200	31.074	32.332	25.829	1.00	30.27
•	C ATOM	1826	0	LEU	A1200	32.061	32.263	25.094	1.00	29.94
	O ATOM C	1827	СВ	LEU	A1200	29.147	33.745	25.213	1.00	29.18
	ATOM C	1828	CG	LEU	A1200	28.255	34.985	25.288	1.00	29.96
	ATOM C	1829	CD1	LEU	A1200	27.207	34.918	24.190	1.00	29.66
	ATOM C	1830	CD2	LEU	A1200	27.611	35.072	26.663	1.00	28.31
	MOTA N	1831	N	LEU	A1201	30.536	31.272	26.420	1.00	30.53
	ATOM C	1832	CA	LEU	A1201	31.054	29.926	26.195	1.00	31.33
	ATOM C	1833	С	LEU	A1201	30.753	29.609	24.731	1.00	33.51
	ATOM O	1834	0	LEU	A1201	29.834	30.189	24.153	1.00	32.70
	ATOM C	1835	СВ	LEU	A1201	30.338	28.931	27.111	1.00	29.71
	ATOM C	1836	CG	LEU	A1201	30.666	29.073	28.598	1.00	27.86
	ATOM C	1837	CD1	LEU	A1201	29.534	28.518	29.447	1.00	27.69
	ATOM C	1838	CD2	LEU	A1201	31.990	28.353	28.890	1.00	28.03
	ATOM N	1839	N	ASP	A1202	31.516	28.699	24.128	1.00	36.00
	ATOM C	1840	CA	ASP	A1202	31.299	28.360	22.725	1.00	37.82
	ATOM C	1841	С	ASP	A1202	30.035	27.544	22.476	1.00	38.71
	ATOM O		0		A1202	29.352		23.408		38.16
	ATOM C		CB		A1202	32.502	27.597	22.151		39.73
	ATOM	1844	CG	ASP	A1202	32.713	26.238	22.812	1.00	42.66

	С									
	MOTA	1845	OD1	ASP	A1202	31.734	25.650	23.324	1.00	43.54
	O ATOM	1846	OD2	ASP	A1202	33.863	25.745	22.802	1.00	43.89
	O ATOM	1847	N	LYS	A1203	29.735	27.334	21.200	1.00	39.24
	N ATOM	1848	CA	LYS	A1203	28.577	26.556	20.798	1.00	40.74
	C ATOM	1849	С	LYS	A1203	29.048	25.111	20.680	1.00	41.02
	C ATOM	1850	0	LYS	A1203	29.826	24.775	19.785	1.00	40.89
	O ATOM	1851	СВ	LYS	A1203	28.052	27.059	19.451	1.00	42.04
	C ATOM	1852	CG	LYS	A1203	27.666	28.535	19.458	1.00	43.47
	C ATOM	1853	CD	LYS	A1203	27.251	29.015	18.068	1.00	45.47
	C ATOM	1854	CE	LYS	A1203	26.832	30.483	18.099	1.00	46.18
	C ATOM	1855	NZ	LYS	A1203	26.525	31.024	16.738	1.00	47.55
	N ATOM	1856	N	PRO	A1204	28.590	24.238	21.593	1.00	40.85
	N ATOM	1857	CA	PRO	A1204	28.983	22.827	21.576	1.00	41.16
	C ATOM	1858	С	PRO	A1204	28.721	22.185	20.220	1.00	42.18
	C ATOM	1859	0	PRO	A1204	27.693	22.440	19.591	1.00	41.48
	O ATOM	1860	СВ	PRO	A1204	28.114	22.216	22.674	1.00	41.00
	C ATOM	1861	CG	PRO	A1204	27.901	23.360	23.620	1.00	40.26
	C ATOM	1862	CD	PRO	A1204	27.618	24.493	22.669	1.00	39.94
	C ATOM	1863	N	ASP	A1205	29.651	21.352	19.773	1.00	43.81
	N ATOM	1864	CA	ASP	A1205	29.497	20.672	18.496	1.00	46.22
	C ATOM	1865	С	ASP	A1205	28.286	19.750	18.526	1.00	46.55
	C ATOM	1866	0	ASP	A1205	28.021	19.091	19.532	1.00	47.44
	O ATOM	1867	СВ	ASP	A1205	30.755	19.863	18.171	1.00	48.03
	C ATOM	1868	CG	ASP	A1205	31.937	20.742	17.806	1.00	49.94
	C ATOM	1869	OD1	ASP	A1205	31.861	21.438	16.769	1.00	51.31
	O ATOM	1870	OD2	ASP	A1205	32.939	20.742	18.553	1.00	51.46
	O ATOM	1871	N	ASN	A1206	27.551	19.713	17.422	1.00	46.56
	N ATOM	1872	CA	ASN	A1206	26.375	18.859	17.307	1.00	47.20
	C ATOM	1873	С	ASN	A1206	25.323	19.103	18.387	1.00	46.57
•	C ATOM	1874	0	ASN	A1206	24.619	18.179	18.791	1.00	47.30

O ATOM C	1875	СВ	ASN	A1206	26.801	17.389	17.343	1.00	48.65
ATOM C	1876	CG	ASN	A1206	27.840	17.058	16.288	1.00	50.01
ATOM O	1877	OD1	ASN	A1206	28.431	15.977	16.302	1.00	51.30
ATOM N	1878	ND2	ASN	A1206	28.066	17.987	15.364	1.00	50.10
ATOM N	1879	N	CYS	A1207	25.214	20.340	18.857	1.00	45.44
ATOM C	1880	CA	CYS	A1207	24.226	20.665	19.879	1.00	43.21
ATOM C	1881	С	CYS	A1207	22.892	20.998	19.212	1.00	42.07
ATOM O	1882	0	CYS	A1207	22.852	21.667	18.182	1.00	41.48
ATOM C	1883	СВ	CYS	A1207	24.695	21.864	20.711	1.00	42.90
MOTA	1884	SG	CYS	A1207	23.540	22.385	22.012	1.00	40.80
S ATOM N	1885	N	PRO	A1208	21.782	20.515	19.785	1.00	41.16
ATOM C	1886	CA	PRO	A1208	20.445	20.772	19.240	1.00	40.17
ATOM C	1887	С	PRO	A1208	20.184	22.275	19.118	1.00	39.10
MOTA O	1888	0	PRO	A1208	20.482	23.033	20.041	1.00	38.01
ATOM C	1889	СВ	PRO	A1208	19.530	20.115	20.267	1.00	41.04
MOTA	1890	CG	PRO	A1208	20.353	18.945	20.732	1.00	41.37
C ATOM	1891	CD	PRO	A1208	21.718	19.569	20.913	1.00	41.67
C ATOM	1892	N	ASP	A1209	19.631	22.701	17.984	1.00	38.15
N ATOM	1893	CA	ASP	A1209	19.348	24.118	17.764	1.00	37.21
C ATOM C	1894	С	ASP	A1209	18.560	24.777	18.889	1.00	35.77
ATOM	1895	0	ASP	A1209	18.852	25.911	19.260	1.00	35.30
O ATOM C	1896	СВ	ASP	A1209	18.603	24.330	16.440	1.00	37.83
ATOM C	1897	CG	ASP	A1209	19.509	24.181	15.233	1.00	39.14
MOTA	1898	OD1	ASP	A1209	20.738	24.316	15.397	1.00	41.17
O ATOM	1899	OD2	ASP	A1209	18.997	23.946	14.120	1.00	40.41
O ATOM	1900	N	MET	A1210	17.564	24.081	19.432	1.00	34.61
N ATOM	1901	CA	MET	A1210	16.761	24.656	20.511	1.00	34.65
C ATOM	1902	С	MET	A1210	17.595	24.988	21.744	1.00	33.41
C ATOM	1903	0	MET	A1210	17.330	25.973	22.435	1.00	32.22
O ATOM	1904	СВ	MET	A1210	15.622	23.715	20.912	1.00	36.25

С									
ATOM C	1905	CG	MET	A1210	14.504	23.622	19.892	1.00	39.39
ATOM S	1906	SD	MET	A1210	13.065	22.747	20.541	1.00	43.20
MOTA	1907	CE	MET	A1210	11.969	24.119	20.947	1.00	42.21
C ATOM	1908	N	LEU	A1211	18.601	24.169	22.023	1.00	32.23
N ATOM C	1909	CA	LEU	A1211	19.454	24.420	23.177	1.00	32.42
ATOM C	1910	С	LEU	A1211	20.426	25.565	22.897	1.00	31.06
ATOM O	1911	0	LEU	A1211	20.749	26.340	23.793	1.00	30.39
ATOM C	1912	СВ	LEU	A1211	20.208	23.145	23.568	1.00	33.87
ATOM	1913	CG	LEU	A1211	19.297	22.014	24.059	1.00	35.27
C ATOM C	1914	CD1	LEU	A1211	20.142	20.834	24.497	1.00	36.95
ATOM C	1915	CD2	LEU	A1211	18.440	22.499	25.214	1.00	34.89
ATOM N	1916	N	LEU	A1212	20.891	25.681	21.657	1.00	30.08
ATOM C	1917	CA	LEU	A1212	21.794	26.776	21.311	1.00	29.34
ATOM C	1918	С	LEU	A1212	21.034	28.089	21.465	1.00	28.41
ATOM O	1919	0	LEU	A1212	21.568	29.073	21.978	1.00	27.96
ATOM C	1920	СВ	LEU	A1212	22.290	26.640	19.866	1.00	30.52
ATOM C	1921	CG	LEU	A1212	23.305	25.528	19.578	1.00	32.56
ATOM C	1922	CD1	LEU	A1212	23.548	25.417	18.080	1.00	31.88
ATOM C	1923	CD2	LEU	A1212	24.609	25.825	20.313	1.00	31.93
ATOM N	1924	N	GLU	A1213	19.779	28.094	21.019	1.00	27.36
ATOM C	1925	CA	GLU	A1213	18.944	29.288	21.099	1.00	26.61
ATOM C	1926	С	GLU	A1213	18.624	29.621	22.554	1.00	25.99
ATOM O	1927	0	GLU	A1213	18.670	30.782	22.947	1.00	26.32
ATOM C	1928	СВ	GLU	A1213	17.659	29.081	20.286	1.00	25.91
ATOM C	1929	CG	GLU	A1213	16.638	30.210	20.361	1.00	25.41
ATOM C	1930	CD	GLU	A1213	17.186	31.577	19.965	1.00	26.64
MOTA	1931	OE1	GLU	A1213	18.334	31.674	19.475	1.00	25.47
O ATOM O	1932	OE2	GLU	A1213	16.449	32.568	20.144	1.00	25.53
MOTA N	1933	N	LEU	A1214	18.301	28.607	23.352	1.00	25.84
ATOM	1934	CA	LEU	A1214	18.008	28.832	24.768	1.00	24.94

С									
ATOM C	1935	С	LEU	A1214	19.241	29.441	25.431	1.00	24.53
ATOM O	1936	0	LEU	A1214	19.137	30.376	26.232	1.00	23.74
ATOM	1937	СВ	LEU	A1214	17.632	27.516	25.467	1.00	24.02
C ATOM	1938	CG	LEU	A1214	16.222	26.992	25.184	1.00	26.60
C ATOM	1939	CD1	LEU	A1214	15.978	25.709	25.965	1.00	26.30
C ATOM	19,40	CD2	LEU	A1214	15.192	28.050	25.575	1.00	25.76
C ATOM	1941	N	MET	A1215	20.412	28.910	25.093	1.00	24.05
N ATOM	1942	CA	MET	A1215	21.649	29.437	25.651	1.00	25.08
C ATOM	1943	С	MET	A1215	21.785	30.904	25.277	1.00	24.95
C ATOM	1944	0	MET	A1215	22.050	31.744	26.134	1.00	24.69
O ATOM	1945	СВ	MET	A1215	22.861	28.650	25.137	1.00	26.28
C ATOM	1946	CG	MET	A1215	23.079	27.318	25.845	1.00	26.95
C ATOM	1947	SD	MET	A1215	24.641	26.512	25.393	1.00	28.82
S ATOM C	1948	CE	MET	A1215	24.066	25.184	24.368	1.00	25.56
ATOM	1949	N	ARG	A1216	21.599	31.211	23.993	1.00	25.68
N ATOM C	1950	CA	ARG	A1216	21.696	32.587	23.520	1.00	25.60
ATOM C	1951	С	ARG	A1216	20.780	33.496	24.336	1.00	25.17
ATOM	1952	0	ARG	A1216	21.164	34.603	24.714	1.00	24.03
O ATOM C	1953	СВ	ARG	A1216	21.304	32.685	22.038	1.00	26.08
ATOM C	1954	CG	ARG	A1216	21.494	34.092	21.456	1.00	28.88
ATOM C	1955	CD	ARG	A1216	20.999	34.207	20.012	1.00	27.63
ATOM N	1956	NE	ARG	A1216	19.544	34.192	19.938	1.00	29.46
ATOM C	1957	CZ	ARG	A1216	18.765	35.208	20.286	1.00	30.06
ATOM N	1958	NH1	ARG	A1216	19.296	36.340	20.728	1.00	32.37
ATOM N	1959	NH2	ARG	A1216	17.448	35.090	20.204	1.00	31.76
ATOM N	1960	N	MET	A1217	19.566	33.017	24.596	1.00	24.62
ATOM C	1961	CA	MET	A1217	18.575	33.772	25.356	1.00	24.56
ATOM C	1962	С	MET	A1217	18.991	33.937	26.820	1.00	23.69
ATOM O	1963	0	MET	A1217	18.897	35.033	27.375	1.00	23.64
MOTA	1964	СВ	MET	A1217	17.206	33.069	25.291	1.00	26.04

С								
ATOM C	1965	CG	MET	A1217	16.579	32.968	23.890	1.00 28.51
ATOM	1966	SD	MET	A1217	15.232	31.725	23.766	1.00 33.04
S ATOM	1967	CE	MET	A1217	13.860	32.567	24.621	1.00 32.84
C ATOM	1968	N	CYS	A1218	19.446	32.850	27.442	1.00 23.38
N ATOM C	1969	CA	CYS	A1218	19.858	32.891	28.849	1.00 23.43
ATOM	1970	С	CYS	A1218	21.089	33.743	29.071	1.00 23.69
C ATOM	1971	0	CYS	A1218	21.308	34.250	30.176	1.00 22.98
O ATOM	1972	СВ	CYS	A1218	20.137	31.480	29.382	1.00 23.54
C ATOM	1973	SG	CYS	A1218	18.684	30.420	29.454	1.00 25.79
S ATOM	1974	N	TRP	A1219	21.894	33.902	28.023	1.00 23.19
N ATOM	1975	CA	TRP	A1219	23.114	34.684	28.143	1.00 23.68
C ATOM	1976	С	TRP	A1219	23.045	36.110	27.598	1.00 24.33
C ATOM	1977	0	TRP	A1219	24.054	36.659	27.152	1.00 23.35
O ATOM C	1978	СВ	TRP	A1219	24.288	33.947	27.499	1.00 22.27
MOTA	1979	CG	TRP	A1219	24.613	32.640	28.160	1.00 22.76
C ATOM	1980	CD1	TRP	A1219	24.380	32.297	29.463	1.00 22.68
C ATOM	1981	CD2	TRP	A1219	25.258	31.514	27.556	1.00 23.13
C ATOM	1982	NE1	TRP	A1219	24.838	31.021	29.706	1.00 23.55
N ATOM C	1983	CE2	TRP	A1219	25.383	30.519	28.553	1.00 24.41
MOTA	1984	CE3	TRP	A1219	25.746	31.248	26.268	1.00 23.54
C ATOM	1985	CZ2	TRP	A1219	25.975	29.274	28.300	1.00 24.69
C ATOM	1986	CZ3	TRP	A1219	26.336	30.007	26.017	1.00 25.12
C ATOM C	1987	CH2	TRP	A1219	26.443	29.037	27.033	1.00 23.61
ATOM	1988	N	GLN	A1220	21.859	36.705	27.631	1.00 25.40
N ATOM C	1989	CA	GLN	A1220	21.711	38.095	27.199	1.00 25.57
ATOM	1990	С	GLN	A1220	22.449	38.898	28.266	1.00 26.10
C ATOM	1991	0	GLN	A1220	22.258	38.658	29.458	1.00 26.80
O ATOM	1992	СВ	GLN	A1220	20.231	38.483	27.168	1.00 24.03
C ATOM C	1993	CG	GLN	A1220	19.490	37.916	25.974	1.00 23.69
ATOM	1994	CD	GLN	A1220	20.011	38.486	24.672	1.00 26.12

C									
C ATOM O	1995	OE1	GLN	A1220	19.894	39.689	24.421	1.00	25.83
ATOM N	1996	NE2	GLN	A1220	20.612	37.632	23.842	1.00	25.90
ATOM N	1997	N	TYR	A1221	23.293	39.841	27.860	1.00	26.78
ATOM C	1998	CA	TYR	A1221	24.043	40.623	28.841	1.00	27.48
ATOM C	1999	С	TYR	A1221	23.094	41.393	29.760	1.00	27.89
ATOM O	2000	0	TYR	A1221	23.331	41.534	30.960	1.00	27.30
ATOM C	2001	СВ	TYR	A1221	24.981	41.604	28.137	1.00	27.98
ATOM C	2002	CG	TYR	A1221	26.073	42.125	29.037	1.00	28.11
ATOM C	2003	CD1	TYR	A1221	27.231	41.381	29.259	1.00	28.75
ATOM C	2004	CD2	TYR	A1221	25.941	43.350	29.689	1.00	29.08
ATOM C	2005	CE1	TYR	A1221	28.233	41.842	30.109	1.00	29.67
ATOM C	2006	CE2	TYR	A1221	26.936	43.821	30.542	1.00	30.30
ATOM C	2007	CZ	TYR	A1221	28.080	43.062	30.747	1.00	30.27
MOTA O	2008	OH	TYR	A1221	29.065	43.519	31.590	1.00	31.23
ATOM N	2009	N	ASN	A1222	22.014	41.893	29.176	1.00	28.43
ATOM C	2010	CA	ASN	A1222	21.017	42.652	29.916	1.00	28.57
ATOM C	2011	С	ASN	A1222	20.092	41.634	30.576	1.00	28.81
ATOM O	2012	0	ASN	A1222	19.325	40.958	29.897	1.00	28.32
ATOM C	2013	CB	ASN	A1222	20.247	43.540	28.936	1.00	29.64
ATOM C	2014	CG	ASN	A1222	19.158	44.346	29.600	1.00	30.31
ATOM O	2015	OD1	ASN	A1222	18.490	45.156	28.947	1.00	33.54
ATOM N	2016	ND2	ASN	A1222	18.964	44.137	30.893	1.00	28.43
ATOM N	2017	N	PRO	A1223	20.149	41.517	31.913	1.00	29.24
ATOM C	2018	CA	PRO	A1223	19.291	40.547	32.596	1.00	29.21
ATOM C	2019	С	PRO	A1223	17.822	40.617	32.226	1.00	29.78
ATOM O	2020	0	PRO	A1223	17.145	39.588	32.170	1.00	27.87
ATOM C	2021	CB	PRO	A1223	19.546	40.835	34.077	1.00	29.91
	2022	CG	PRO	A1223	19.979	42.264	34.087	1.00	30.06
	2023	CD	PRO	A1223	20.875	42.346	32.887	1.00	29.18
	2024	N	LYS	A1224	17.336	41.830	31.969	1.00	29.51

	N									
	ATOM C	2025	CA	LYS	A1224	15.940	42.032	31.620	1.00	30.12
	ATOM C	2026	С	LYS	A1224	15.603	41.442	30.253	1.00	30.43
	ATOM O	2027	0	LYS	A1224	14.431	41.276	29.920	1.00	31.09
•	ATOM C	2028	СВ	LYS	A1224	15.604	43.530	31.640	1.00	30.51
	ATOM N	2029	N	MET	A1225	16.629	41.127	29.464	1.00	29.86
	ATOM C	2030	CA	MET	A1225	16.418	40.550	28.139	1.00	29.89
	ATOM C	2031	С	MET	A1225	16.343	39.027	28.192	1.00	29.07
	ATOM O	2032	0	MET	A1225	15.973	38.378	27.217	1.00	28.07
	ATOM C	2033	СВ	MET	A1225	17.542	40.972	27.189	1.00	31.78
	ATOM C	2034	CG	MET	A1225	17.511	42.441	26.790	1.00	34.00
	ATOM S	2035	SD	MET	A1225	16.076	42.830	25.774	1.00	39.69
	ATOM C	2036	CE	MET	A1225	15.115	43.856	26.901	1.00	38.38
	ATOM N	2037	N	ARG	A1226	16.698	38.453	29.332	1.00	27.36
	ATOM C	2038	CA	ARG	A1226	16.657	37.005	29.469	1.00	25.66
	ATOM C	2039	С	ARG	A1226	15.236	36.527	29.695	1.00	25.25
	ATOM O	2040	0	ARG	A1226	14.404	37.254	30.228	1.00	25.75
	ATOM C	2041	СВ	ARG	A1226	17.533	36.557	30.638	1.00	24.15
	ATOM C	2042	CG	ARG	A1226	18.999	36.898	30.461	1.00	21.97
	ATOM C	2043	CD	ARG	A1226	19.819	36.607	31.714	1.00	21.87
	ATOM N	2044	NE	ARG	A1226	21.045	37.396	31.690	1.00	21.18
	ATOM C	2045	CZ	ARG	A1226	21.680	37.841	32.771	1.00	21.83
	ATOM N	2046	NH1	ARG	A1226	21.218	37.567	33.989	1.00	20.36
	ATOM N	2047	NH2	ARG	A1226	22.748	38.615	32.627	1.00	22.05
	ATOM N	2048	N	PRO	A1227	14.932	35.293	29.275	1.00	25.03
	ATOM C	2049	CA	PRO	A1227	13.586	34.752	29.466	1.00	24.47
	ATOM C	2050	С	PRO	A1227	13.457	34.295	30.916	1.00	25.04
	ATOM O	2051	0	PRO	A1227	14.459	34.168	31.621	1.00	24.30
	ATOM C	2052	СВ	PRO	A1227	13.557	33.574	28.502	1.00	24.69
	ATOM C	2053	CG	PRO	A1227	14.977	33.053	28.603	1.00	23.19
	ATOM	2054	CD	PRO	A1227	15.775	34.351	28.517	1.00	23.48

С									
ATOM N	2055	N	SER	A1228	12.225	34.056	31.355	1.00	24.28
ATOM C	2056	CA	SER	A1228	11.971	33.569	32.709	1.00	23.53
ATOM C	2057	С	SER	A1228	11.936	32.060	32.553	1.00	22.77
ATOM O	2058	0	SER	A1228	11.834	31.559	31.432	1.00	23.50
ATOM C	2059	СВ	SER	A1228	10.603	34.044	33.198	1.00	23.34
ATOM O	2060	OG	SER	A1228	9.590	33.413	32.437	1.00	24.24
ATOM N	2061	N	PHE	A1229	12.015	31.321	33.654	1.00	22.08
ATOM C	2062	CA	PHE	A1229	11.975	29.872	33.539	1.00	21.69
ATOM C	2063	С	PHE	A1229	10.647	29.409	32.942	1.00	22.19
ATOM O	2064	0	PHE	A1229	10.597	28.414	32.206	1.00	20.79
ATOM C	2065	СВ	PHE	A1229	12.249	29.225	34.900	1.00	20.85
ATOM C	2066	CG	PHE	A1229	13.712	29.219	35.269	1.00	19.61
ATOM C	2067	CD1	PHE	A1229	14.620	28.477	34.523	1.00	18.45
ATOM C	2068	CD2	PHE	A1229	14.184	29.970	36.341	1.00	20.35
ATOM C	2069	CE1	PHE	A1229	15.972	28.482	34.834	1.00	18.37
ATOM C	2070	CE2	PHE	A1229	15.540	29.980	36.662	1.00	19.26
ATOM C	2071	CZ	PHE	A1229	16.437	29.235	35.907	1.00	17.48
ATOM N	2072	N	LEU	A1230	9.572	30.131	33.247	1.00	23.62
ATOM C	2073	CA	LEU	A1230	8.269	29.785	32.686	1.00	24.61
ATOM C	2074	С	LEU	A1230	8.312	29.981	31.172	1.00	24.68
ATOM O	2075	0	LEU	A1230	7.830	29.138	30.421	1.00	25.74
ATOM C	2076	СВ	LEU	A1230	7.165	30.653	33.297	1.00	24.86
ATOM C	2077	CG	LEU	A1230	6.873	30.359	34.769	1.00	24.52
ATOM C	2078	CD1	LEU	A1230	5.808	31.330	35.291	1.00	26.64
ATOM C	2079	CD2	LEU	A1230	6.411	28.909	34.911	1.00	25.36
ATOM N	2080	N	GLU	A1231	8.889	31.089	30.721	1.00	25.85
ATOM C	2081	CA	GLU	A1231	8.992	31.342	29.283	1.00	26.93
ATOM C	2082	С	GLU	A1231	9.856	30.265	28.624	1.00	26.75
MOTA O	2083	0	GLU	A1231	9.584	29.836	27.499	1.00	27.76
ATOM	2084	СВ	GLU	A1231	9.579	32.734	29.020	1.00	28.66

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C ATOM C	2085	CG	GLU	A1231	8.700	33.861	29.559	1.00	32.64
ATOM C	2086	CD	GLU	A1231	9.271	35.248	29.309	1.00	33.20
MOTA	2087	OE1	GLU	A1231	10.496	35.436	29.461	1.00	33.48
O ATOM	2088	OE2	GLU	A1231	8.486	36.161	28.976	1.00	36.08
O ATOM	2089	N	ILE	A1232	10.894	29.820	29.327	1.00	25.89
N ATOM	2090	CA	ILE	A1232	11.771	28.780	28.796	1.00	23.97
C ATOM	2091	С	ÎLE	A1232	10.991	27.480	28.605	1.00	24.30
C ATOM	2092	0	ILE	A1232	11.063	26.843	27.554	1.00	22.92
O ATOM	2093	СВ	ILE	A1232	12.967	28.526	29.746	1.00	23.67
C ATOM C	2094	CG1	ILE	A1232	13.957	29.697	29.647	1.00	23.41
ATOM C	2095	CG2	ILE	A1232	13.626	27.197	29.403	1.00	21.51
ATOM C	2096	CD1	ILE	A1232	15.007	29.734	30.739	1.00	23.55
MOTA	2097	N	ILE	A1233	10.245	27.091	29.630	1.00	25.00
N ATOM	2098	CA	ILE	A1233	9.450	25.871	29.578	1.00	26.21
C ATOM C	2099	С	ILE	A1233	8.410	25.974	28.466	1.00	27.62
MOTA	2100	0	ILE	A1233	8.208	25.039	27.689	1.00	27.64
O ATOM C	2101	СВ	ILE	A1233	8.735	25.626	30.928	1.00	26.36
MOTA	2102	CG1	ILE	A1233	9.777	25.322	32.009	1.00	25.34
C ATOM C	2103	CG2	ILE	A1233	7.738	24.467	30.799	1.00	25.70
ATOM C	2104	CD1	ILE	A1233	9.232	25.372	33.414	1.00	24.91
MOTA	2105	N	SER	A1234	7.755	27.125	28.399	1.00	28.85
N ATOM C	2106	CA	SER	A1234	6.734	27.363	27.391	1.00	30.83
ATOM C	2107	C	SER	A1234	7.270	27.103	25.983	1.00	31.46
ATOM O	2108	0	SER	A1234	6.614	26.453	25.170	1.00	30.79
ATOM C	2109	СВ	SER	A1234	6.243	28.803	27.498	1.00	30.85
MOTA	2110	OG	SER	A1234	5.253	29.070	26.533	1.00	36.36
O ATOM	2111	N	SER	A1235	8.470	27.603	25.703	1.00	30.79
N ATOM C	2112	CA	SER	A1235	9.066	27.446	24.381	1.00	31.12
ATOM C	2113	С	SER	A1235	9.444	26.023	23.976	1.00	30.72
ATOM	2114	0	SER	A1235	9.570	25.740	22.786	1.00	31.73

O ATOM C	2115	СВ	SER	A1235	10.301	28.344	24.252	1.00 30.68	
ATOM O	2116	OG	SER	A1235	11.358	27.861	25.060	1.00 32.75	
ATOM N	2117	N	ILE	A1236	9.626	25.125	24.941	1.00 29.62	
ATOM C	2118	CA	ILE	A1236	10.006	23.748	24.618	1.00 29.15	
ATOM C	2119	С	ILE	A1236	9.008	22.695	25.088	1.00 30.05	
ATOM O	2120	0	ILE	A1236	9.264	21.502	24.961	1.00 29.14	
ATOM C	2121	CB	ILE	A1236	11.374	23.380	25.248	1.00 29.37	
ATOM C	2122	CG1	ILE	A1236	11.281	23.487	26.777	1.00 29.40	
ATOM C	2123	CG2	ILE	A1236	12.466	24.290	24.701	1.00 28.70	
ATOM C	2124	CD1	ILE	A1236	12.555	23.093	27.519	1.00 29.57	
ATOM N	2125	N	LYS	A1237	7.879	23.131	25.628	1.00 31.86	
ATOM C	2126	CA	LYS	A1237	6.881	22.207	26.157	1.00 34.62	
ATOM C	2127	С	LYS	A1237	6.377	21.118	25.220	1.00 35.38	
ATOM O	2128	0	LYS	A1237	6.024	20.027	25.677	1.00 36.10	
ATOM C	2129	CB	LYS	A1237	5.690	22.987	26.713	1.00 35.75	
ATOM C	2130	CG	LYS	A1237	4.982	23.865	25.706	1.00 37.84	
ATOM C	2131	CD	LYS	A1237	3.859	24.619	26.386	1.00 39.51	
ATOM C	2132	CE	LYS	A1237	3.277	25.688	25.483	1.00 41.71	
ATOM N	2133	NZ	LYS	A1237	2.257	26.479	26.224	1.00 44.31	
ATOM N	2134	N	GLU	A1238	6.339	21.392	23.919	1.00 35.40	
ATOM C	2135	CA	GLU	A1238	5.861	20.388	22.977	1.00 35.84	
ATOM C	2136	С	GLU	A1238	6.873	19.256	22.814	1.00 36.19	
ATOM O	2137	0	GLU	A1238	6.537	18.179	22.319	1.00 37.25	
ATOM C	2138	CB	GLU	A1238	5.562	21.029	21.617	1.00 35.09	
ATOM N	2139	N	GLU	A1239	8.110	19.498	23.241		
ATOM C	2140	CA	GLU	A1239	9.173	18.501	23.129		
ATOM C	2141	С	GLU	A1239	9.297	17.632	24.376	1.00 35.66	
ATOM O	2142	0		A1239	10.051	16.657	24.388		
ATOM C	2143	CB		A1239	10.510	19.197			
MOTA	2144	CG	GLU	A1239	10.425	20.305	21.841	1.00 38.99	

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C ATOM C	2145	CD	GLU	A1239	10.020	19.803	20.469	1.00	40.84
ATOM O	2146	OE1	GLU	A1239	9.413	20.590	19.710	1.00	42.64
ATOM O	2147	OE2	GLU	A1239	10.314	18.630	20.145	1.00	40.55
MOTA N	2148	N	MET	A1240	8.559	17.985	25.424	1.00	35.58
ATOM C	2149	CA	MET	A1240	8.601	17.228	26.675	1.00	35.95
ATOM C	2150	С	MET	A1240	7.781	15.938	26.588	1.00	37.40
ATOM O	2151	0	MET	A1240	6.808	15.866	25.836	1.00	38.23
ATOM C	2152	СВ	MET	A1240	8.066	18.091	27.822	1.00	33.51
ATOM C	2153	CG	MET	A1240	8.839	19.385	28.056	1.00	31.62
ATOM S	2154	SD	MET	A1240	10.583	19.085	28.446	1.00	29.26
ATOM C	2155	CE	MET	A1240	10.442	18.390	30.070	1.00	29.87
ATOM N	2156	N	GLU	A1241	8.171	14.923	27.356	1.00	38.68
ATOM C	2157	CA	GLU	A1241	7.440	13.658	27.362	1.00	40.33
ATOM C	2158	С	GLU	A1241	6.023	13.902	27.878	1.00	40.09
ATOM O	2159	0	GLU	A1241	5.765	14.891	28.560	1.00	39.84
ATOM C	2160	СВ	GLU	A1241	8.147	12.625	28.241	1.00	41.70
ATOM C	2161	CG	GLU	A1241	9.587	12.376	27.839	1.00	44.98
ATOM C	2162	CD	GLU	A1241	10.222	11.239	28.613	1.00	47.13
ATOM O	2163	OE1	GLU	A1241	9.838	11.025	29.782	1.00	48.69
ATOM O	2164	OE2	GLU	A1241	11.119	10.569	28.056	1.00	49.28
ATOM N	2165	N	PRO	A1242	5.086	12.994	27.557	1.00	40.03
ATOM C	2166	CA	PRO	A1242	3.682	13.094	27.968	1.00	39.72
ATOM C	2167	C	PRO	A1242	3.440	13.361	29.454	1.00	38.89
ATOM O	2168	0	PRO	A1242	2.685	14.266	29.817	1.00	38.63
ATOM C	2169	CB	PRO	A1242	3.099	11.749	27.528	1.00	39.66
ATOM C	2170	CG	PRO	A1242	3.936	11.396	26.333	1.00	40.44
ATOM C	2171	CD	PRO	A1242	5.319	11.742	26.813	1.00	40.20
ATOM N	2172	N	GLY	A1243	4.085	12.568	30.304	1.00	38.08
ATOM C	2173	CA	GLY	A1243	3.909	12.707	31.738	1.00	37.23
ATOM	2174	С	GLY	A1243	4.357	14.008	32.380	1.00	36.38

C ATOM	2175	0	GLY	A1243	4.154	14.195	33.582	1.00 36.22
O ATOM	2176	N	PHE	A1244	4.960	14.903	31.601	1.00 35.38
N ATOM	2177	CA	PHE	A1244	5.426	16.181	32.134	1.00 34.51
C ATOM	2178	С	PHE	A1244	4.234	17.016	32.596	1.00 35.25
C ATOM	2179	0	PHE	A1244	4.302	17.720	33.605	1.00 33.57
O MOTA	2180	СВ	PHE	A1244	6.206	16.953	31.062	1.00 33.30
C ATOM	2181	CG	PHE	A1244	6.821	18.235	31.559	1.00 30.43
TOM	2182	CD1	PHE	A1244	7.876	18.212	32.467	1.00 29.71
C ATOM	2183	CD2	PHE	A1244	6.337	19.468	31.129	1.00 30.80
C ATOM	2184	CE1	PHE	A1244	8.445	19.401	32.944	1.00 27.55
C ATOM	2185	CE2	PHE	A1244	6.900	20.664	31.599	1.00 30.08
C ATOM	2186	CZ	PHE	A1244	7.960	20.622	32.512	1.00 27.60
C ATOM	2187	N	ARG	A1245	3.142	16.927	31.849	1.00 36.28
N ATOM	2188	CA	ARG	A1245	1.930	17.673	32.159	1.00 38.25
C ATOM	2189	С	ARG	A1245	1.310	17.222	33.483	1.00 38.04
C ATOM	2190	0	ARG	A1245	0.634	17.994	34.156	1.00 38.57
O ATOM	2191	СВ	ARG	A1245	0.921	17.495	31.018	1.00 41.21
C ATOM	2192	CG	ARG	A1245	1.568	17.569	29.630	1.00 44.94
C ATOM	2193	CD	ARG	A1245	0.582	17.345	28.477	1.00 47.83
C ATOM	2194	NE	ARG	A1245	-0.155	18.558	28.123	1.00 50.26
V MOTA	2195	CZ	ARG	A1245	-1.163	19.061	28.830	1.00 51.42
C ATOM	2196	NH1	ARG	A1245	-1.572	18.454	29.937	1.00 51.49
N ATOM	2197	NH2	ARG	A1245	-1.754	20.183	28.435	1.00 51.61
N ATOM	2198	N	GLU	A1246	1.554	15.971	33.854	1.00 38.27
N ATOM	2199	CA	GLU	A1246	0.999	15.407	35.080	1.00 38.26
C ATOM	2200	С	GLU	A1246	1.800	15.687	36.351	1.00 36.86
C ATOM	2201	0	GLU	A1246	1.226	15.821	37.431	1.00 37.18
O ATOM	2202	СВ	GLU	A1246	0.849	13.891	34.926	1.00 40.55
C ATOM	2203	CG	GLU	A1246	-0.034	13.457	33.756	1.00 44.85
C ATOM	2204	CD	GLU	A1246	-0.045	11.947	33.554	1.00 46.95

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MOTA O	2205	OE1	GLU	A1246	0.971	11.397	33.069	1.00	47.55
MOTA O	2206	OE2	GLU	A1246	-1.072	11.309	33.886	1.00	48.83
MOTA	2207	N	VAL	A1247	3.120	15.776	36.229	1.00	34.12
N ATOM	2208	CA	VAL	A1247	3.966	15.989	37.399	1.00	32.43
C ATOM C	2209	С	VAL	A1247	4.665	17.341	37.518	1.00	31.40
ATOM O	2210	0	VAL	A1247	5.228	17.656	38.567	1.00	32.16
MOTA	2211	СВ	VAL	A1247	5.063	14.921	37.463	1.00	32.30
C ATOM	2212	CG1	VAL	A1247	4.442	13.526	37.472	1.00	31.52
C ATOM	2213	CG2	VAL	A1247	6.001	15.089	36.275	1.00	32.05
C ATOM	2214	N	SER	A1248	4.631	18.140	36.461	1.00	29.37
N ATOM	2215	CA	SER	A1248	5.322	19.418	36.470	1.00	28.45
C ATOM	2216	С	SER	A1248	4.661	20.559	37.225	1.00	28.46
C ATOM	2217	0	SER	A1248	3.435	20.618	37.358	1.00	27.77
O ATOM	2218	СВ	SER	A1248	5.576	19.878	35.034	1.00	28.85
C ATOM	2219	OG	SER	A1248	4.361	20.229	34.397	1.00	29.35
O ATOM	2220	N	PHE	A1249	5.491	21.470	37.726	1.00	26.51
N ATOM	2221	CA	PHE	A1249	4.978	22.651	38.410	1.00	26.75
C ATOM	2222	С	PHE	A1249	4.331	23.533	37.336	1.00	26.82
C ATOM	2223	0	PHE	A1249	3.327	24.214	37.582	1.00	27.57
O ATOM	2224	СВ	PHE	A1249	6.117	23.428	39.070	1.00	24.98
C ATOM	2225	CG	PHE	A1249	5.774	24.859	39.379	1.00	26.52
C ATOM	2226	CD1	PHE	A1249	4.952	25.175	40.452	1.00	25.76
C ATOM	2227	CD2	PHE	A1249	6.270	25.892	38.589	1.00	25.81
C ATOM	2228	CE1	PHE	A1249	4.629	26.507	40.743	1.00	26.71
C ATOM	2229	CE2	PHE	A1249	5.953	27.220	38.871	1.00	26.73
C ATOM	2230	CZ	PHE	A1249	5.131	27.525	39.951	1.00	25.90
C ATOM	2231	N	TYR	A1250	4.920	23.509	36.143	1.00	25.68
N ATOM	2232	CA	TYR	A1250	4.432	24.305	35.022	1.00	26.44
C ATOM	2233	С	TYR	A1250	2.942	24.097	34.745	1.00	26.31
C ATOM	2234	0	TYR	A1250	2.197、	25.060	34.624	1.00	25.05

O ATOM	2235	СВ	TYR	A1250	5.222	23.977	33.750	1.00 26.67	
C ATOM	2236	CG	TYR	A1250	4.863	24.856	32.573	1.00 28.60	
C ATOM	2237	CD1	TYR	A1250	5.351	26.159	32.473	1.00 27.57	
C ATOM	2238	CD2	TYR	A1250	3.996	24.396	31.577	1.00 28.82	
C ATOM C	2239	CE1	TYR	A1250	4.982	26.986	31.405	1.00 29.72	
ATOM	2240	CE2	TYR	A1250	3.619	25.214	30.511	1.00 29.09	
C ATOM C	2241	CZ	TYR	A1250	4.112	26.503	30.431	1.00 29.89	
ATOM O	2242	ОН	TYR	A1250	3.728	27.308	29.385	1.00 32.31	
ATOM N	2243	N	TYR	A1251	2.513	22.844	34.642	1.00 27.48	
ATOM C	2244	CA	TYR	A1251	1.107	22.552	34.359	1.00 29.90	
ATOM C	2245	С	TYR	A1251	0.205	22.421	35.590	1.00 30.89	
MOTA	2246	0	TYR	A1251	-0.973	22.080	35.459	1.00 31.00	
O ATOM C	2247	СВ	TYR	A1251	0.988	21.273	33.525	1.00 30.84	
ATOM C	2248	CG	TYR	A1251	1.347	21.441	32.066	1.00 32.97	
ATOM C	2249	CD1	TYR	A1251	2.590	21.036	31.575	1.00 33.92	
ATOM C	2250	CD2	TYR	A1251	0.431	21.990	31.169	1.00 33.69	
ATOM C	2251	CE1	TYR	A1251	2.910	21.168	30.213	1.00 34.66	
ATOM C	2252	CE2	TYR	A1251	0.739	22.133	29.816	1.00 35.57	
ATOM C	2253	CZ	TYR	A1251	1.975	21.718	29.344	1.00 35.59	
ATOM O	2254	ОН	TYR	A1251	2.258	21.849	28.003	1.00 36.47	
ATOM N	2255	N	SER	A1252	0.749	22.688	36.776	1.00 30.78	
ATOM C	2256	CA	SER	A1252	-0.028	22.581	38.006	1.00 31.50	
ATOM C	2257	С	SER	A1252	-0.923	23.797	38.211	1.00 33.77	
ATOM O	2258	0	SER	A1252	-0.703	24.856	37.622	1.00 32.63	
ATOM C	2259	CB	SER	A1252	0.898	22.446	39.214	1.00 28.47	
ATOM O	2260	OG	SER	A1252	1.443	23.708	39.556	1.00 25.98	
ATOM N	2261	N	GLU	A1253	-1.936	23.648	39.057	1.00 38.13	
ATOM C	2262	CA	GLU	A1253	-2.832	24.762	39.326	1.00 41.85	
ATOM C	2263	С	GLU	A1253	-2.134	25.859	40.129	1.00 43.22	
ATOM	2264	0	GLU	A1253	-2.536	27.019	40.078	1.00 44.08	

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O ATOM C	2265	CB	GLU	A1253	-4.084	24.273	40.058	1.00	44.10
ATOM C	2266	CG	GLU	A1253	-5.021	23.471	39.169	1.00	47.20
ATOM C	2267	CD	GLU	A1253	-6.372	23.223	39.806	1.00	49.62
ATOM	2268	OE1	GLU	A1253	-6.419	22.586	40.882	1.00	51.56
O MOTA O	2269	OE2	GLU	A1253	-7.389	23.666	39.230	1.00	51.17
ATOM N	2270	N	GLU	A1254	-1.085	25.502	40.865	1.00	45.08
ATOM C	2271	CA	GLU	A1254	-0.363	26.500	41.650	1.00	47.25
ATOM C	2272	С	GLU	A1254	0.278	27.562	40.763	1.00	48.14
ATOM O	2273	0	GLU	A1254	0.554	28.673	41.219	1.00	48.85
ATOM	2274	СВ	GLU	A1254	0.716	25.848	42.522	1.00	48.10
C ATOM C	2275	CG	GLU	A1254	0.174	25.151	43.756	1.00	49.67
ATOM C	2276	CD	GLU	A1254	0.017	23.658	43.565	1.00	51.38
ATOM O	2277	OE1	GLU	A1254	-0.521	23.235	42.515	1.00	51.36
ATOM	2278	OE2	GLU	A1254	0.430	22.907	44.476	1.00	52.89
O ATOM N	2279	N	ASN	A1255	0.514	27.221	39.499	1.00	48.72
ATOM C	2280	CA	ASN	A1255	1.115	28.161	38.560	1.00	49.06
ATOM C	2281	С	ASN	A1255	0.071	28.805	37.650	1.00	49.93
ATOM O	2282	0	ASN	A1255	-0.331	28.225	36.639	1.00	50.04
ATOM C	2283	СВ	ASN	A1255	2.170	27.465	37.700	1.00	47.46
ATOM C	2284	CG	ASN	A1255	2.689	28.359	36.598	1.00	46.80
ATOM O	2285	OD1	ASN	A1255	3.088	29.495	36.848	1.00	45.76
ATOM N	2286	ND2	NSA	A1255	2.685	27.856	35.370	1.00	45.96
ATOM N	2287	N	LYS	A1256	-0.361	30.007	38.018	1.00	51.06
ATOM C	2288	CA	LYS	A1256	-1.358	30.739	37.241	1.00	51.71
ATOM C	2289	С	LYS	A1256	-1.141	32.241	37.380	1.00	51.87
ATOM O	2290	0	LYS	A1256	-0.266	32.607	38.194	1.00	52.38
ATOM C	2291	СВ	LYS	A1256	-2.769	30.374	37.713	1.00	51.43
TER ATOM	2292 2293	N	LYS GLY	A1256 B 6	39.036	24.284	41.107	1.00	40.82
N ATOM	2294	CA	GLY		37.941	24.473			40.78
C				- •	3.13.2		-2.100		_0.,0

ATOM C	2295	С	GLY	В	6	36.802	25.287	41.518	1.00 40.77
MOTA	2296	0	GLY	В	6	37.032	26.231	40.762	1.00 41.04
O ATOM	2297	N	GLU	В	7	35.571	24.936	41.877	1.00 40.15
N ATOM	2298	CA	GLU	В	7	34.406	25.645	41.363	1.00 39.17
C ATOM	2299	С	GLU	В	7	34.047	26.896	42.152	1.00 37.83
C ATOM	2300	0	GLU	В	7	33.410	27.801	41.621	1.00 37.19
O ATOM	2301	СВ	GLU	В	7	33.190	24.719	41.322	1.00 41.31
C ATOM	2302	CG	GLU	В	7	33.283	23.603	40.304	1.00 44.38
C ATOM	2303	CD	GLU	В	7	34.086	22.428	40.808	1.00 45.85
C ATOM	2304	OE1	GLU	В	7	33.692	21.853	41.845	1.00 48.19
O ATOM	2305	OE2	GLU	В	7	35.103	22.079	40.169	1.00 46.91
O MOTA	2306	N	TYR	В	8	34.444	26.948	43.418	1.00 35.85
N ATOM	2307	CA	TYR	В	8	34.138	28.111	44.236	1.00 35.08
C ATOM	2308	С	TYR	В	8	35.409	28.911	44.475	1.00 35.80
C ATOM	2309	0	TYR	В	8	36.367	28.421	45.071	1.00 36.07
O ATOM	2310	СВ	TYR	В	8	33.491	27.679	45.551	1.00 32.23
C ATOM	2311	CG	TYR	В	8	32.208	26.906	45.331	1.00 30.79
C ATOM	2312	CD1	TYR	В	8	32.233	25.536	45.069	1.00 29.80
C ATOM	2313	CD2	TYR	В	8	30.972	27.556	45.325	1.00 29.27
C ATOM	2314	CE1	TYR	В	8	31.057	24.827	44.804	1.00 28.38
C ATOM C	2315	CE2	TYR	В	8	29.791	26.858	45.059	1.00 28.51
ATOM C	2316	CZ	TYR	В	8	29.842	25.495	44.800	1.00 27.67
ATOM O	2317	ОН	TYR	В	8	28.680	24.803	44.532	1.00 25.85
ATOM N	2318	N	VAL	В	9	35.396	30.148	43.994	1.00 35.98
ATOM C	2319	CA	VAL	В	9	36.537	31.048	44.079	1.00 36.82
ATOM C	2320	С	VAL	В	9	36.235	32.253	44.946	1.00 37.49
ATOM O	2321	0	VAL	В	9	35.115	32.757	44.956	1.00 36.73
ATOM C	2322	CB	VAL	В	9	36.920	31.565	42.674	1.00 37.23
ATOM C	2323	CG1	VAL	В	9	38.233	32.339	42.741	1.00 37.93
_	2324	~~^	VAL	-	9	37.015	30.404	41.701	1.00 35.96

ATOM N	2325	N	ASN	В	10	37.241	32.726	45.672	1.00	39.29
ATOM C	2326	CA	ASN	В	10	37.043	33.884	46.524	1.00	41.20
MOTA	2327	С	ASN	В	10	36.815	35.125	45.668	1.00	41.65
C ATOM	2328	0	ASN	В	10	37.458	35.318	44.638	1.00	41.69
O ATOM	2329	СВ	ASN	В	10	38.251	34.096	47.434	1.00	42.91
C ATOM	2330	CG	ASN	В	10	37.977	35.105	48.528	1.00	45.62
C ATOM	2331	OD1	ASN	В	10	37.842	36.305	48.268	1.00	47.21
O ATOM	2332	ND2	ASN	В	10	37.881	34.623	49.763	1.00	47.32
N ATOM	2333	N	ILE	В	11	35.883	35.960	46.106	1.00	42.19
N ATOM	2334	CA	ILE	В	11	35.550	37.189	45.408	1.00	43.33
C ATOM	2335	С	ILE	В	11	34.988	38.107	46.483	1.00	43.91
C ATOM	2336	0	ILE	В	11	34.255	37.661	47.366	1.00	44.07
O ATOM	2337	СВ	ILE	В	11	34.498	36.927	44.289	1.00	43.84
C ATOM	2338	CG1	ILE	В	11	34.243	38.206	43.492	1.00	43.89
C ATOM	2339	CG2	ILE	В	11	33.202	36.414	44.897	1.00	43.79
C ATOM C	2340	CD1	ILE	В	11	33.405	37.987	42.244	1.00	43.43
ATOM	2341	N	GLU	В	12	35.331	39.385	46.419	1.00	44.77
N ATOM C	2342	CA	GLU	В	12	34.872	40.324	47.431	1.00	45.90
ATOM C	2343	С	GLU	В	12	34.130	41.518	46.847	1.00	45.85
ATOM O	2344	0	GLU	В	12	34.518	42.055	45.813	1.00	46.02
ATOM C	2345	СВ	GLU	В	12	36.073	40.815	48.238	1.00	46.73
ATOM C	2346	CG	GLU	В	12	35.720	41.604	49.482 ,	1.00	48.46
MOTA	2347	CD	GLU	В	12	36.952	42.170	50.153	1.00	49.29
C ATOM	2348	OE1	GLU	В	12	37.972	41.450	50.208	1.00	49.56
O ATOM	2349	OE2	GLU	В	12	36.901	43.325	50.626	1.00	50.18
O ATOM	2350	N	PHE	В	13	33.063	41.931	47.521	1.00	46.52
N ATOM C	2351	CA	PHE	В	13	32.274	43.069	47.071	1.00	47.14
MOTA	2352	С	PHE	В	13	32.220	44.169	48.132	1.00	47.84
C ATOM	2353	0	PHE	В	13	31.914	43.830	49.298	1.00	48.52
O ATOM C	2354	СВ	PHE	В	13	30.856	42.618	46.715	1.00	46.83

ATOM C	2355	CG	PHE B	13	30.811	41.516	45.692	1.00 46.45	
ATOM C	2356	CD1	PHE B	13	30.698	40.187	46.084	1.00 46.19	
ATOM C	2357	CD2	PHE B	13	30.910	41.808	44.336	1.00 46.29	
ATOM C	2358	CE1	PHE B	13	30.684	39.163	45.139	1.00 45.84	
ATOM C	2359	CE2	PHE B	13	30.898	40.791	43.385	1.00 45.77	
ATOM C	2360	CZ	PHE B	13	30.784	39.468	43.787	1.00 45.64	
TER HETATM P	2361 2362	PG	PHE B ACP	13 300	28.187	20.375	47.993	1.00 90.63	
HETATM O	2363	01G	ACP	300	27.263	21.059	48.936	1.00 90.58	
HETATM O	2364	02G	ACP	300	29.614	20.704	48.227	1.00 90.46	
HETATM O	2365	03G	ACP	300	27.759	20.368	46.575	1.00 90.51	
HETATM P	2366	PB	ACP	300	28.989	17.539	47.592	1.00 88.83	
HETATM O	2367	01B	ACP	300	29.314	17.993	46.216	1.00 88.99	
HETATM O	2368	02B	ACP	300	30.106	17.095	48.465	1.00 89.01	
HETATM C	2369	СЗВ	ACP	300	28.121	18.761	48.386	1.00 89.61	
HETATM P	2370	PA	ACP	300	26.836	16.029	48.383	1.00 84.52	
HETATM O	2371	01A	ACP	300	27.121	16.421	49.782	1.00 84.49	
HETATM O	2372	02A	ACP	300	25.591	16.500	47.731	1.00 84.46	
HETATM O	2373	03A	ACP	300	28.029	16.357	47.492	1.00 86.79	
HETATM O	2374	05*	ACP	300	26.834	14.426	48.328	1.00 82.72	
HETATM C	2375	C5*	ACP	300	27.992	13.572	48.283	1.00 79.58	
HETATM C	2376	C4*	ACP	300	27.603	12.316	47.539	1.00 77.81	
HETATM O	2377	04*	ACP	300	26.473	11.705	48.213	1.00 76.39	
HETATM C	2378	C3*	ACP	300	27.130	12.537	46.110	1.00 77.47	
HETATM O	2379	03*	ACP	300	28.231	12.527	45.208	1.00 78.23	
HETATM C	2380	C2*	ACP	300	26.209	11.347	45.874	1.00 76.55	
HETATM O	2381	02*	ACP	300	26.910	10.172	45.515	1.00 77.33	
HETATM C	2382	C1*	ACP	300	25.572	11.174	47.255	1.00 75.12	
HETATM N	2383	N9	ACP	300	24.276	11.839	47.415	1.00 72.80	
HETATM C	2384	C8	ACP	300	24.015	13.074	47.962	1.00 72.08	
HETATM	2385	N7	ACP	300	22.741	13.386	47.982	1.00 71.07	

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N HETATM	2386	C5	ACP	300	22.118	12.287	47.406	1.00 70.69	
C HETATM	2387	C6	ACP	300	20.766	11.996	47.133	1.00 69.98	
C HETATM	2388	N6	ACP	300	19.753	12.819	47.426	1.00 68.35	
N HETATM	2389	N1	ACP	300	20.485	10.812	46.547	1.00 69.31	
N HETATM	2390	C2	ACP	300	21.497	9.986	46.254	1.00 70.12	
C HETATM	2391	N3	ACP	300	22.804	10.144	46.460	1.00 70.45	
N HETATM	2392	C4	ACP	300	23.052	11.329	47.045	1.00 71.44	
C HETATM	2393	0	нон	1	22.137	29.987	39.997	1.00 24.25	
O HETATM	2394	0	нон	2	28.502	21.379	37.559	1.00 17.51	
O HETATM	2395	0	нон	3	21.920	26.909	46.424	1.00 18.07	
O HETATM	2396	0	нон	4	25.752	30.702	40.361	1.00 25.78	
O HETATM	2397	0	нон	5	24.945	34.730	39.083	1.00 23.79	
O HETATM	2398	О	нон	6	29.279	31.851	33.168	1.00 21.31	
O HETATM O	2399	0	нон	7	31.143	21.585	38.763	1.00 23.45	
HETATM O	2400	0	нон	8	26.341	38.277	27.657	1.00 25.42	
HETATM O	2401	0	НОН	9	14.537	38.179	41.151	1.00 28.18	
HETATM O	2402	0	нон	10	9.520	12.415	36.226	1.00 25.47	
HETATM	2403	0	нон	11	21.571	33.423	40.575	1.00 26.47	
O HETATM O	2404	0	нон	12	9.808	31.932	36.081	1.00 24.12	
HETATM	2405	0	нон	13	10.251	18.911	46.584	1.00 20.34	
HETATM O	2406	0	нон	14	29.036	37.929	28.766	1.00 23.81	
HETATM	2407	0	НОН	15	13.398	8.179	48.098	1.00 24.75	
HETATM O	2408	0	нон	16	10.832	15.265	44.323	1.00 21.60	
HETATM O	2409	0	нон	17	15.665	13.459	32.157	1.00 28.24	
HETATM O	2410	0	нон	18	26.572	27.947	40.217	1.00 21.83	
HETATM O	2411	0	нон	19	23.836	32.387	39.546	1.00 20.61	
HETATM O	2412	0	нон	20	30.537	33.584	34.558	1.00 27.88	
HETATM	2413	0	НОН	21	28.581	31.986	28.493	1.00 25.64	
MTATAH C	2414	0	НОН	22	9.993	14.732	34.653	1.00 22.34	
HETATM	2415	0	нон	23	14.882	12.725	66.433	1.00 30.60	

HETATM	2416	0	нон	24	14.789	38.625	32.433	1.00 34.28	
	2417	0	нон	25	25.435	26.484	53.022	1.00 31.27	
_	2418	0	НОН	26	30.141	16.575	40.620	1.00 33.77	
-	2419	0	нон	27	36.625	28.028	38.866	1.00 28.39	
	2420	0	нон	28	31.749	25.342	67.897	1.00 30.69	
-	2421	0	НОН	29	14.812	35.957	33.696	1.00 30.39	
_	2422	0	НОН	30	16.288	7.376	42.312	1.00 23.93	
_	2423	0	НОН	31	1.206	19.282	36.921	1.00 26.84	
	2424	0	НОН	32	8.011	14.500	32.548	1.00 42.67	
HETATM	2425	0	НОН	33	26.860	11.491	42.483	1.00 36.55	
_	2426	0	НОН	34	16.020	10.404	67.594	1.00 31.11	
HETATM	2427	0	НОН	35	21.459	41.899	26.285	1.00 29.09	
HETATM	2428	0	НОН	36	18.492	9.954	68.741	1.00 33.40	
HETATM	2429	0	НОН	37	6.597	16.223	56.219	1.00 52.42	
HETATM	2430	0	НОН	38	-2.101	20.541	39.799	1.00 31.64	
HETATM	2431	0	НОН	39	12.508	32.800	36.316	1.00 25.89	
HETATM	2432	0	НОН	40	8.498	30.990	38.113	1.00 25.67	
HETATM	2433	0	НОН	41	15.184	18.895	68.516	1.00 40.91	
HETATM	2434	0	НОН	42	33.849	28.516	39.086	1.00 22.93	
HETATM	2435	0	нон	43	7.785	5.814	54.761	1.00 35.37	
HETATM	2436	0	нон	44	19.506	45.472	25.833	1.00 30.04	
HETATM	2437	0	нон	45	17.722	8.373	29.609	1.00 39.92	
HETATM	2438	0	НОН	47	5.664	19.223	40.690	1.00 30.95	
HETATM	2439	0	нон	48	43.007	33.486	38.592	1.00 36.20	
HETATM	2440	0	НОН	49	12.056	38.191	39.710	1.00 37.31	
HETATM	2441	0	нон	50	12.933	6.960	39.622	1.00 34.19	
HETATM	2442	0	нон	51	36.441	34.000	51.717	1.00 74.17	
HETATM	2443	0	нон	52	21.443	15.806	66.124	1.00 38.62	
HETATM	2444	0	НОН	53	13.432	24.781	60.537	1.00 41.23	
	2445	0	НОН	54	13.350	35.437	35.840	1.00 29.54	
	O HETATM O H	HETATM 2416 O HETATM 2417 O HETATM 2418 O HETATM 2419 O HETATM 2420 O HETATM 2421 O HETATM 2422 O HETATM 2423 O HETATM 2424 O HETATM 2425 O HETATM 2426 O HETATM 2427 O HETATM 2428 O HETATM 2428 O HETATM 2430 O HETATM 2431 O HETATM 2431 O HETATM 2432 O HETATM 2433 O HETATM 2434 O HETATM 2435 O HETATM 2436 O HETATM 2436 O HETATM 2437 O HETATM 2438 O HETATM 24438 O HETATM 24438 O HETATM 24438 O HETATM 24440 O HETATM 24440 O HETATM 24441 O HETATM 24443 O HETATM 24443 O HETATM 24444 O HETATM 24444 O HETATM 24444 O HETATM 24444	HETATM 2416 O O HETATM 2417 O O HETATM 2418 O O HETATM 2419 O O HETATM 2420 O O HETATM 2421 O O HETATM 2422 O O HETATM 2423 O O HETATM 2424 O O HETATM 2425 O O HETATM 2426 O O HETATM 2427 O O HETATM 2428 O O HETATM 2428 O O HETATM 2430 O O HETATM 2431 O O HETATM 2431 O O HETATM 2431 O O HETATM 2432 O O HETATM 2433 O O HETATM 2434 O O HETATM 2435 O O HETATM 2436 O O HETATM 2437 O O HETATM 2438 O O HETATM 2438 O O HETATM 2439 O O HETATM 2430 O O HETATM 2431 O O HETATM 2431 O O HETATM 2433 O O HETATM 2434 O O HETATM 2444 O	HETATM 2416 O HOH O HETATM 2417 O HOH O HETATM 2418 O HOH O HETATM 2419 O HOH O HETATM 2420 O HOH O HETATM 2421 O HOH O HETATM 2422 O HOH O HETATM 2423 O HOH O HETATM 2424 O HOH O HETATM 2425 O HOH O HETATM 2426 O HOH O HETATM 2428 O HOH O HETATM 2428 O HOH O HETATM 2430 O HOH O HETATM 2430 O HOH O HETATM 2431 O HOH O HETATM 2431 O HOH O HETATM 2432 O HOH O HETATM 2432 O HOH O HETATM 2433 O HOH O HETATM 2434 O HOH O HETATM 2434 O HOH O HETATM 2434 O HOH O HETATM 2435 O HOH O HETATM 2436 O HOH O HETATM 2437 O HOH O HETATM 2438 O HOH O HETATM 2438 O HOH O HETATM 2438 O HOH O HETATM 2439 O HOH O HETATM 2439 O HOH O HETATM 2439 O HOH O HETATM 2440 O HOH O HETATM 2441 O HOH O HETATM 2443 O HOH O HETATM 2444 O HOH	HETATM 2416 O HOH 24 O HETATM 2417 O HOH 25 O HETATM 2418 O HOH 26 O HETATM 2418 O HOH 26 O HETATM 2419 O HOH 27 O HETATM 2420 O HOH 28 O HETATM 2421 O HOH 29 O HETATM 2422 O HOH 30 O HETATM 2423 O HOH 31 O HETATM 2424 O HOH 32 O HETATM 2425 O HOH 33 O HETATM 2426 O HOH 35 O HETATM 2427 O HOH 35 O HETATM 2428 O HOH 37 O HETATM 2429 O HOH 37 O HETATM 2430 O HOH 38 O HETATM 2431 O HOH 39 O HETATM 2431 O HOH 39 O HETATM 2432 O HOH 40 O HETATM 2433 O HOH 41 O HETATM 2434 O HOH 42 O HETATM 2434 O HOH 42 O HETATM 2435 O HOH 43 O HETATM 2436 O HOH 43 O HETATM 2436 O HOH 43 O HETATM 2437 O HOH 45 O HETATM 2438 O HOH 47 O HETATM 2438 O HOH 47 O HETATM 2438 O HOH 47 O HETATM 2439 O HOH 49 O HETATM 2439 O HOH 48 O HETATM 2430 O HOH 49 O HETATM 2441 O HOH 49 O HETATM 2441 O HOH 51 O HETATM 2442 O HOH 51 O HETATM 2444 O HOH 53 O HETATM 2444 O HOH 51 O HETATM 2444 O HOH 51 O HETATM 2444 O HOH 53	HETATM 2416 O HOH 24 14.789 O HETATM 2417 O HOH 25 25.435 O HETATM 2418 O HOH 26 30.141 O HETATM 2419 O HOH 27 36.625 O HETATM 2420 O HOH 28 31.749 O HETATM 2421 O HOH 29 14.812 O HETATM 2422 O HOH 30 16.288 O HETATM 2423 O HOH 31 1.206 O HETATM 2424 O HOH 32 8.011 O HETATM 2425 O HOH 33 26.860 O HETATM 2426 O HOH 34 16.020 O HETATM 2427 O HOH 35 21.459 O HETATM 2428 O HOH 36 18.492 O HETATM 2429 O HOH 37 6.597 O HETATM 2431 O HOH 38 -2.101 O HETATM 2431 O HOH 39 12.508 O HETATM 2432 O HOH 40 8.498 O HETATM 2433 O HOH 41 15.184 O HETATM 2434 O HOH 42 33.849 O HETATM 2435 O HOH 43 7.785 O HETATM 2436 O HOH 44 19.506 O HETATM 2437 O HOH 45 17.722 O HETATM 2438 O HOH 47 5.664 O HETATM 2438 O HOH 47 5.664 O HETATM 2439 O HOH 48 43.007 O HETATM 2439 O HOH 48 43.007 O HETATM 2438 O HOH 47 5.664 O HETATM 2439 O HOH 48 43.007 O HETATM 2441 O HOH 49 12.056 O HETATM 2442 O HOH 50 12.933 O HETATM 2444 O HOH 50 12.933 O HETATM 2444 O HOH 51 36.441 O HETATM 2444 O HOH 52 21.443	HETATM 2416 O HOH 24 14.789 38.625 O HETATM 2417 O HOH 25 25.435 26.484 O HETATM 2418 O HOH 26 30.141 16.575 O HETATM 2419 O HOH 27 36.625 28.028 O HETATM 2420 O HOH 28 31.749 25.342 O HETATM 2421 O HOH 29 14.812 35.957 O HETATM 2422 O HOH 30 16.288 7.376 O HETATM 2424 O HOH 31 1.206 19.282 O HETATM 2424 O HOH 32 8.011 14.500 O HETATM 2425 O HOH 33 26.860 11.491 O HETATM 2426 O HOH 34 16.020 10.404 O HETATM 2428 O HOH 35 21.459 41.899 O HETATM 2429 O HOH 36 18.492 9.954 O HETATM 2429 O HOH 37 6.597 16.223 O HETATM 2420 O HOH 37 6.597 16.223 O HETATM 2421 O HOH 38 -2.101 20.541 O HETATM 2431 O HOH 39 12.508 32.800 O HETATM 2432 O HOH 40 8.498 30.990 O HETATM 2433 O HOH 41 15.184 18.895 O HETATM 2434 O HOH 42 33.849 28.516 O HETATM 2435 O HOH 41 15.184 18.895 O HETATM 2436 O HOH 42 33.849 28.516 O HETATM 2437 O HOH 43 7.785 5.814 O HETATM 2436 O HOH 44 19.506 45.472 O HETATM 2437 O HOH 45 17.722 8.373 O HETATM 2438 O HOH 47 5.664 19.223 O HETATM 2437 O HOH 47 5.664 19.223 O HETATM 2437 O HOH 48 43.007 33.486 O HETATM 2439 O HOH 49 12.056 38.191 O HETATM 2441 O HOH 50 12.933 6.960 O HETATM 2442 O HOH 51 36.441 34.000 O HETATM 2443 O HOH 52 21.443 15.806 O HETATM 2444 O HOH 53 13.432 24.781	HETATM 2416 O HOH 24 14.789 38.625 32.433 O HETATM 2417 O HOH 25 25.435 26.484 53.022 O HETATM 2418 O HOH 26 30.141 16.575 40.620 O HETATM 2419 O HOH 27 36.625 28.028 38.866 O HETATM 2420 O HOH 28 31.749 25.342 67.897 O HETATM 2421 O HOH 29 14.812 35.957 33.696 O HETATM 2422 O HOH 30 16.288 7.376 42.312 O HETATM 2422 O HOH 30 16.288 7.376 42.312 O HETATM 2423 O HOH 31 1.206 19.282 36.921 O HETATM 2424 O HOH 32 8.011 14.500 32.548 O HETATM 2425 O HOH 33 26.860 11.491 42.483 O HETATM 2426 O HOH 34 16.020 10.404 67.594 O HETATM 2427 O HOH 35 21.459 41.899 26.285 O HETATM 2428 O HOH 36 18.492 9.954 68.741 O HETATM 2429 O HOH 37 6.597 16.223 56.219 O HETATM 2431 O HOH 38 -2.101 20.541 39.799 O HETATM 2431 O HOH 38 -2.101 20.541 39.799 O HETATM 2431 O HOH 39 12.508 32.800 36.316 O HETATM 2432 O HOH 40 8.498 30.990 38.113 O HETATM 2433 O HOH 41 15.184 18.895 68.516 O HETATM 2434 O HOH 42 33.849 28.516 39.086 O HETATM 2435 O HOH 43 7.785 5.814 54.761 O HETATM 2436 O HOH 44 19.506 45.472 25.833 O HETATM 2436 O HOH 44 19.506 45.472 25.833 O HETATM 2438 O HOH 47 5.664 19.223 40.690 O HETATM 2438 O HOH 47 5.664 19.223 40.690 O HETATM 2438 O HOH 48 43.007 33.486 38.592 O HETATM 2439 O HOH 48 43.007 33.486 38.592 O HETATM 2439 O HOH 48 43.007 33.486 38.592 O HETATM 2439 O HOH 48 43.007 33.486 38.592 O HETATM 2439 O HOH 48 43.007 33.486 38.592 O HETATM 2439 O HOH 48 43.007 33.486 38.592 O HETATM 2439 O HOH 48 43.007 33.486 38.592 O HETATM 2439 O HOH 48 43.007 33.486 38.592 O HETATM 2430 O HOH 49 12.056 38.191 39.710 O HETATM 2440 O HOH 50 12.933 6.960 39.622 O HETATM 2441 O HOH 50 12.933 6.960 39.622 O HETATM 2442 O HOH 51 36.441 34.000 51.717 O HETATM 2443 O HOH 51 36.441 34.000 51.717 O HETATM 2444 O HOH 51 36.441 34.000 51.717 O HETATM 2444 O HOH 51 36.441 34.000 51.717 O HETATM 2444 O HOH 51 36.441 34.000 51.717	HETATM 2416

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HETATM O	2446	0	нон	55	4.164	19.389	27.476	1.00 41.74
HETATM O	2447	0	нон	56	31.249	20.911	34.186	1.00 27.10
HETATM O	2448	0	нон	57	19.746	28.049	17.447	1.00 39.48
HETATM O	2449	0	нон	58	42.843	30.393	38.039	1.00 47.83
HETATM O	2450	0	нон	59	31.592	27.673	64.845	1.00 43.83
HETATM O	2451	0	нон	60	12.318	19.740	48.429	1.00 38.12
HETATM O	2452	0	нон	61	12.451	8.944	41.374	1.00 40.43
HETATM O	2453	0	нон	62	4.219	26.852	44.487	1.00 38.88
HETATM O	2454	0	нон	63	26.219	10.703	38.752	1.00 28.12
HETATM O	2455	0	нон	64	7.405	34.791	33.154	1.00 34.07
HETATM O	2456	0	нон	65	11.515	26.327	56.838	1.00 31.08
HETATM O	2457	0	НОН	66	17.297	33.563	52.871	1.00 43.41
HETATM O	2458	0	нон	67	24.267	8.457	44.546	1.00 38.80
HETATM O	2459	0	нон	69	11.432	4.072	48.149	1.00 35.05
HETATM O	2460	0	нон	70	10.772	11.020	40.667	1.00 37.02
HETATM O	2461	0	нон	71	24.997	3.953	44.283	1.00 43.64
HETATM O	2462	0	нон	72	23.451	6.060	35.463	1.00 45.73
HETATM O	2463	0	нон	73	32.220	14.620	38.020	1.00 37.33
HETATM O	2464	0	нон	74	13.693	1.406	44.713	1.00 48.16
HETATM O	2465	0	нон	75	22.511	6.538	30.501	1.00 42.94
HETATM O	2466	0	нон	76	24.836	42.218	33.193	1.00 32.38
HETATM O	2467	0	нон	77	25.981	28.233	22.712	1.00 29.46
HETATM O	2468	0	нон	78	32.320	22.917	23.374	1.00 48.86
HETATM O	2469	0	нон	79	16.510	12.998	29.553	1.00 34.25
HETATM O	2470	0	нон	80	45.514	30.182	32.390	1.00 44.39
HETATM O	2471	0	нон	81	18.649	0.766	42.899	1.00 47.59
HETATM	2472	0	нон	82	26.554	14.855	54.851	1.00 30.76
O HETATM O	2473	0	нон	83	6.818	22.741	55.460	1.00 45.68
HETATM	2474	0	нон	84	24.057	29.805	21.544	1.00 35.34
O HETATM	2475	0	нон	85	24.932	7.469	37.185	1.00 46.73

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O HETATM O	2476	0	нон	86	27.606	30.708	22.713	1.00 35.85
HETATM O	2477	0	нон	87	26.976	23.102	51.189	1.00 39.11
HETATM	2478	0	нон	88	9.637	10.018	38.354	1.00 35.11
OHETATM	2479	0	нон	89	12.916	-4.328	51.504	1.00 45.03
O HETATM	2480	0	нон	90	3.786	30.704	39.114	1.00 44.49
OHETATM	2481	0	нон	91	18.854	11.664	32.681	1.00 40.60
O HETATM	2482	0	нон	92	13.377	9.630	43.738	1.00 34.97
OHETATM	2483	0	нон	93	26.928	29.602	60.404	1.00 49.22
O HETATM	2484	0	нон	94	23.211	24.862	45.756	1.00 43.49
O HETATM	2485	0	нон	95	24.506	23.885	52.760	1.00 42.23
O HETATM	2486	0	нон	96	29.721	25.703	49.289	1.00 62.96
O HETATM	2487	0	нон	97	26.929	17.398	53.963	1.00 53.66
O HETATM	2488	0	нон	98	26.377	18.429	51.202	1.00 49.22
O HETATM	2489	0	нон	99	31.721	19.360	40.533	1.00 37.77
O HETATM	2490	0	НОН	100	24.321	17.340	43.977	1.00 42.11
O HETATM	2491	0	нон	101	24.964	20.989	50.603	1.00 63.81
OHETATM	2492	0	нон	102	26.108	25.416	47.344	1.00 54.19
O HETATM	2493	0	нон	103	23.111	26.758	54.643	1.00 39.22
O HETATM	2494	0	НОН	104	5.052	20.803	55.640	1.00 37.86
O HETATM	2495	0	НОН	105	11.313	19.059	50.627	1.00 33.05
O HETATM	2496	0	НОН	106	13.990	39.942	39.438	1.00 52.24
O HETATM	2497	0	НОН	107	27.194	32.974	49.723	1.00 31.57
O HETATM	2498	0	нон	108	21.058	36.732	54.272	1.00 47.71
O HETATM	2499	0	НОН	109	18.121	1.998	49.995	1.00 29.42
O HETATM O	2500	0	НОН	110	6.193	22.676	60.202	1.00 54.23
HETATM	2501	0	НОН	111	16.261	21.710	17.961	1.00 55.38
O HETATM	2502	0	нон	112	15.057	-4.883	50.272	1.00 39.14
O HETATM O	2503	0	нон	113	27.054	43.687	34.078	1.00 36.69
HETATM O	2504	0	нон	114	12.294	11.767	33.039	1.00 35.68
HETATM	2505	0	нон	115	39.847	31.335	45.674	1.00 41.98

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O HETATM O	2506	0	нон	116	15.067	21.595	67.590	1.00	37.18
HETATM O	2507	0	нон	117	32.656	21.284	36.411	1.00	45.07
HETATM O	2508	0	нон	118	20.381	40.057	37.939	1.00	41.60
HETATM O	2509	0	нон	119	29.326	1.277	52.677	1.00	45.29
HETATM	2510	0	нон	164	25.927	18.489	45.653	1.00	60.51
O HETATM	2511	0	нон	121	33.859	27.702	25.719	1.00	39.14
O HETATM	2512	0	нон	122	16.017	3.348	34.593	1.00	39.15
O HETATM	2513	0	нон	123	23.977	5.637	32.473	1.00	42.29
O HETATM	2514	0	нон	124	23.155	30.578	18.925	1.00	43.77
O HETATM	2515	0	нон	125	35.930	24.489	44.770	1.00	44.28
O HETATM	2516	0	нон	126	25.217	31.856	22.671	1.00	37.23
O HETATM	2517	0	нон	127	2.659	22.591	41.848	1.00	43.18
O HETATM	2518	0	нон	128	27.050	30.876	62.822	1.00	43.57
O HETATM O	2519	0	нон	129	34.139	39.714	54.500	1.00	42.22
HETATM O	2520	0	нон	130	9.664	22.256	61.236	1.00	43.83
HETATM O	2521	0	НОН	131	12.664	13.436	71.519	1.00	43.94
HETATM O	2522	0	нон	132	20.327	41.282	49.889	1.00	45.31
HETATM O	2523	0	нон	133	31.509	37.374	48.793	1.00	46.23
HETATM O	2524	0	нон	134	9.354	13.811	58.712	1.00	43.10
HETATM O	2525	0	нон	135	8.605	7.368	47.689	1.00	46.66
HETATM	2526	0	нон	136	5.029	33.683	31.890	1.00	48.57
HETATM O	2527	0	НОН	137	35.485	27.292	21.198	1.00	46.51
HETATM O	2528	0	НОН	138	8.022	34.150	35.973	1.00	46.38
HETATM O	2529	0	нон	139	18.323	44.117	35.949	1.00	43.47
HETATM O	2530	0	НОН	140	12.199	3.278	45.740	1.00	43.53
HETATM O	2531	0	нон	141	11.674	38.458	29.581	1.00	48.58
HETATM O	2532	0	НОН	142	21.078	19.793	55.157	1.00	41.59
HETATM O	2533	0	НОН	143	25.520	45.197	36.030	1.00	42.70
HETATM O	2534	0	НОН	144	24.067	-2.119	57.839	1.00	47.84
HETATM	2535	0	нон	145	13.817	1.093	42.142	1.00	45.12

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O HETATM	2536	0	нон	146		22.117	7.414	63.254	1.00	36.34
O HETATM	2537	0	нон	147		16.334	10.543	72.822	1.00	43.60
O HETATM	2538	0	нон	148		38.999	24.750	33.957	1 00	59.12
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HETATM O	2539	0	нон	149		18.797	11.077	71.789	1.00	37.85
HETATM O	2540	0	нон	150		8.548	12.865	55.304	1.00	35.43
HETATM O	2541	0	нон	151		4.308	6.026	56.071	1.00	49.56
HETATM	2542	0	нон	152		5.097	23.151	50.408	1.00	56.67
O HETATM	2543	0	нон	153		14.236	5.016	45.399	1.00	36.39
O HETATM	2544	0	нон	154		13.623	7.565	45.484	1.00	45.30
O HETATM	2545	0	НОН	155		18.351	10.762	30.241	1.00	37.76
O HETATM	2546	0	нон	156		14.282	39.792	49.638	1.00	44.76
O HETATM	2547	0	нон	157		20.304	30.492	18.431	1.00	34.66
O HETATM	25/18	0	нон	158		28.549	22.226	45.041	1 00	43.12
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HETATM O	2549	0	нон	159		8.058	20.451	52.200	1.00	55.46
HETATM O	2550	0	НОН	160		41.352	32.088	42.084	1.00	52.59
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